



श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता  
Syama Prasad Mookerjee Port, Kolkata  
सिविल इंजीनियरिंग विभाग/Civil Engineering Department  
मुख्य अभियंता कोलकाता का कार्यालय / Office of the Chief Engineer  
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No. SMPK/KDS/CIV/T/2830/854

Dated: 31.07.2024

**NOTICE FOR ADDENDUM-IV & CORRIGENDUM-III**

Ref: NIT No.:- SMPK/KDS/CIV/T/2830/12

Dated: 08.03.2024

Tender Id No.:- SMPK/KDS/CIV/T/2830/12

**Name of Work:** - Development of River Cruise terminal and river tourism facility alongwith riverfront beautification works at KDS, SMP, Kolkata – adjacent to Indenture Memorial area.

Page Ref.	In place of	To be read as
Page No. 4,5,12,13,14 of the NIT Document and wherever applicable	<u>Date of closing of online e-tender for submission of Techno-Commercial Bid &amp; PriceBid.</u> 23.05.2024 (upto 15:00 hrs)	<u>Date of closing of online e-tender for submission of Techno-Commercial Bid &amp; PriceBid.</u> 13.08.2024 (upto 15:00 hrs)
	<u>Date &amp; time of opening of Techno-Commercial Bid</u> 24.05.2024 (After 13:00 hrs)	<u>Date &amp; time of opening of Techno-Commercial Bid</u> 14.08.2024 (After 13:00 hrs)

In continuation to the above, the following are also to be considered:-

1. Compilation of Replies to Pre-Bid Queries (alongwith referred annexures) as Addendum IV.
2. Corrigendum III vide No: - SMPK/KDS/CIV/T/2830/805 dated 19/07/2024 alongwith enclosures referred therein. This supersedes the earlier Corrigendum-III.

Bidders are requested to upload this '**CORRIGENDUM-III**' duly signed under office seal along with their **Techno-Commercial Bid** as an acknowledgement and acceptance.

This notice along with Addendum-IV and Corrigendum-III shall be part of the tender Document.

  
31/7/24  
**Superintending Engineer –Contract**  
For मुख्य अभियंता / Chief Engineer

**ADDENDUM-IV**

COMPILATION OF REPLIES TO PRE-BID QUERIES FOR THE TENDER " Development of River Cruise terminal and river tourism facility alongwith riverfront beautification works at KDS, SMP, Kolkata – adjacent to Indenture Memorial area." Vide NIT No :- SMPK/KDS/CIV/T/2830/12 dated 08/03/2024

SL NO.	ITEM NO	DESCRIPTION OF ITEM	QUERIES	REPLY
		BIDDER-1		
		TECHNICAL QUERIES		
		A1		
		<b>Retrofitting and rehabilitation works :-</b>		
1		Carry out required repair/rehabilitation / strengthening works of existing old structures to enhance the performance of the structure, extend the service life or increase the load carrying capacity including but not limited to the following steps:	Quantity required	An estimated BOQ with quantities only is attached as Annexure-I . The bidders are required to quote rate against the individual items and the total needs to be carried over to the item BOQ as a LS amount. Any variation during execution shall be paid as per rates quoted in Annexure - I and as per relevant tender clause on extra item of work.
	A6	<b>Landscape Work :-</b>		
2	4	Supplying,fitting & fixing granite slab 15mm to 18mm thick in floor, lobby, stair, landing and treads etc. over 20mm (avg) thick base of cement mortar (1:2) laid with white cement slurry @ 4.40Kg per Square meter before placing of granite and jointed with white cement slurry @ 2.0 Kg per square meter with necessary pigments and complete as perdirection of Engineer-in-charge including cost of all materials, labours, curing and roughening of concrete surface complete. Area of each Granite slab 0.6 to 1.0 Square meter. -In ground floor.	Basic rate or name of the granite required	This is an item rate contract. The bidder is to quote as per the specification.

3	6	Supplying, fitting & fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design, fixing in customize design as per direction of Engineer in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge. [At Ground Floor.	Basic rate required of glass mosaic tiles	This is an item rate contract. The bidder is to quote as per the specification.
4	9	Applying stamping finish to the top surface of freshly laid plain/ reinforced cement concrete of specified grade in porticos, sidewalks, driveways, pool decks and open yards as per direction of the Engineer in-Charge. The process shall include the following:-		This is an item rate contract. The bidder is to quote as per the specification.
5	10	Supplying, providing and placing of 25-50mm diameter round shaped,gray colour,riverwash finish pebble in loose form (50mm thick) over pit/channel drain grating as per details.	Basic rate required	This is an item rate contract. The bidder is to quote as per the specification.
6	11	Supplying,providing and installation of FRP make/other material sitting chair as per details.	Basic rate/ image reference & specifications required	Image reference provided in Annexure-II.
7	12	Supplying, providing and installation of big size boughtout sculpture infront of Light House(sculptures as per selection).	Basic rate/ image reference & specifications required.( Make as detail specifications required).	Image reference and specification provided in Annexure-III.
8	13	Supplying, providing and installation of boughtout marble made decorative stepped fountain as per details.	Provisional sum required	Reference provided in Annexure-IV
9	14	Supplying, providing and installation of boughtout sculptures at different places as per requirement (sculptures as per selection)	Basic rate required	Image reference and specification provided in Annexure-III.
10	15	Supplying and providing of boughtout outdoor type furnitures at different landscape areas as per design/choice.	Provisional sum required. Alternatively, please prive quantity & detail specifications with images	Image reference provided in Annexure-II.
11	16	Supplying, providing and installation of pump with all type of fittings as nozzles,filter,pipe lines,lights,labours etc. as per vendor details.	Detail specifications of pump & quantity required	This is for the proposed fountain. Bidder is required to quote rate based on his own estimation (detail break up to be submitted in a separate sheet).

12	17	Drip irrigation and sprinkler system including all type of fittings as per vendor details.	Detail specifications required	Bidder may quote as per own estimation based on detail break up whichh is to be submitted with the bid.
13	18	Tap irrigation system including all type of fittings as per vendor details.	Detail specifications required	Bidder may quote as per own estimation based on detail break up whichh is to be submitted with the bid.
14	19	Supplying and providing outdoor type light fixtures for illuminating the landscape areas (considered only light fixtures as per specification/select similar)	Make and detail specifications required	Reference provided in Annexure-V
15	20	Fountain Filterisation System as specified.	Provisional sum required	This is for the proposed fountain. Bidder is requirerd to quote rate based on his own estimation (detail break up to be submitted in a separate sheet).
16	21	Stone Sculpture for Fountain as per drawing, design and specification.	Basic rate required	Image reference and specification provided in Annexure-III.
17	22	Other Sculptures for outside areas as per drawing, design and specification.	Basic rate required	Image reference and specification provided in Annexure-III.
18	A7	Special Feature Items		
19	2	Providing Replica of Old Ship - repairing or remodeling work- as per design , drawing and specification.	Basic rate/ Image, Size & detail specifications required	An estimated BOQ with quantities only is attached as Annexure-VI . The bidders are required to quote rate against the individual items and the total needs to be carried over to the item BOQ as a LS amount. Any variation during execution shall be paid as per rates quoted in Annexure - I and as per relevant tender clause on extra item of work.Drawing provided separately.
20	3	Providing, supplying & fixing CONVEX MIRROR as per design , drawing and specification.	Basic rate/ Image, Size & detail specifications required	Six ( 6) Nos 800 mm dia Convex Mirror in Red ABS framer for Road Safety.
21	4	Outdoor Lighting as per design , drawing and specification.	Quantity & detail specifications required	Reference provided in Annexure-V
22	5	General Illumination as per design , drawing and specification.	Quantity & detail specifications required	Reference provided in Annexure-V

23	6	Façade Lighting as per design , drawing and specification.	Quantity & detail specifications required	Reference provided in Annexure-V
24	7	Dustbin as per design , drawing and specification.	Size & specifications required	FRP Dustbin as per image of ( Tree Trunk Design - 40 Litres capacity).
25	8	ART & SIGNAGE as per design , drawing and specification.	Provisional Sum Required	Total amount may be quoted considering Iron Sign Board , SS Sign Board , 2D LED Sign Board and Retro Reflective Sign Board , each four type for 3200 Sq.ft. Individual rates to be provided separately complete with frame which shall form basis of payment. Rate for stand to be quoted on per mtr basis and the same shall not ber considered in the total of this item.
		EXTERNAL SEWERAGE SYSTEM		
		WATER TREATMENT PLANT - 3.0 m3/hr		1 number required.
26	3	Supply of monobloc pumps for transferring the raw water to the filters 5 m3/hr @ 12- 15 mts head .Raw water to Treated water sump	Quantity required	1 number required.
27	6	Supply, installation, testing and commissioning of inter unit piping with necessary flanges, bolts, nuts, neoprene gaskets, welding wherever necessary, with necessary control valves, non return valves etc and with one coat of primer and two coats of approved enamel paint etc., complete.	Quantity required	1 number required.
28	9	Installing, testing and commissioning plant, inter unit piping with necessary flanges, bolts, nuts, neoprene gaskets, welding wherever necessary, with necessary control valves, non return valves ,required corecut & sleeves In RCC wall etc and with one coat of primer and two coats of approved enamel paint etc., complete.STP - 40 KLD	Please confirm if rate to be quoted per number	1 number required.

29	4	Supplying, installing , testing and commissioning	Quantities required of all material specified	As per BOQ description , the contractor is to quote rate based on his own assesment. The same may have to be modified later on during actual execution of the work.
		Fine pore diffusers with membrane with		
		supporting structure UPVC pipes with necessary accessories for air line connection from header and RCC block support for clamping down to		
		floor.All as per specification (For SBR tanks)		
		Length of diffuser : 90 dia x 1000mm long (		
		Retreivable type to be considered)		
However, Contractor to design and provide the same as per their Design				
30	5	Supplying, installing , testing and commissioning Air Blower as per specifictaion to supply air for all collection tank, SBR tank, sludge tank and final tank. dedicate set for SBR tank, and additional set for equaliastion tank, decant tank, sludge tank, final tank.	Quantity required	As per BOQ description , the contractor is to quote rate based on his own assesment.
		Air blower for SBR Tanks @ 0.5 bar @ 90 m3/hr motor 5 hp		
		Air blower for Eq Tank & SHT @ 0.5 bar		
		However, Contractor to design and provide the same as per their Design		
31	6	Providing and fixing of sludge pumps monobloc for transfer of sewage from aertion tanks to sludge tank once in 19 days	Quantity required	1 number required.
32	a	Piping (heavy class) in MS/GI/UPVC as per the approval of the consultants, to be designed for suitable and corrosion resistance. The discharged piping shall be designed at velocity		
		1.5 m/s and the suction header shall be designed at velocity 1.2 m/s. Exposed and submerged piping shall be SS / UPVC and headers of pumps shall be MS/GI.		
33	b	Material of Construction of Submerged Piping : CPVC	Quantity required	Rate to be quoted only.
34	c	Material of Construction of Pump Headers : GI	Quantity required	Rate to be quoted only.
35	13	Electrical Cabling (Aluminium Armoured /	Quantity & detail specifications required	Rate to be quoted only.
		Copper Flexible) for all equipment feed supplies		
		& Copper flexible for control cabling including GI wires & strips for earthing .		

36	14	GI Cable Trays of suitable sizes for all equipment feed supplies.	Quantity & detail specifications required	Rate to be quoted only.
37	15	Commissioning and obtaining the statutory approvals from the concerned including necessary signages . Only technical support	Quantity & detail specifications required	Rate to be quoted only.
<b>ELECTRICAL WORKS</b>				
38	1	11KV/6.6 KV HT 3WAY RMU PANEL (Indoor type)-Optional	Please share the Single Line Diagram	Annexed.
39	2	INDOOR TYPE -6.6kV HT VCB PANEL	Please share the Single Line Diagram	Annexed.
40	8.1	MAIN LT PANEL	Please share the Single Line Diagram	Annexed.
41	8.2	250 KVAR APFC PANEL	Please share the Single Line Diagram	Annexed.
42	8.3	FEEDER PILLAR-1	Please share the Single Line Diagram or make list	Annexed.
43	8.4	FEEDER PILLAR-2	Please share the Single Line Diagram or make list	Annexed.
44	8.5	FEEDER PILLAR-3	Please share the Single Line Diagram or make list	Annexed.
45	8.6	EXTERNAL LIGHTING FEEDER PILLAR-1	Please share the Single Line Diagram or make list	Annexed.
46	8.7	EXTERNAL LIGHTING FEEDER PILLAR-2	Please share the Single Line Diagram or make list	Annexed.
<b>Fire</b>				

47	B-5	Fabrication, supply, Installation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :	Please share the Single Line Diagram	Annexed.
<b>CCTV</b>				
48	General	Kindly Share the list of make.		After award of work any Make In India brand conforming to tender specifications and relevant Indian Standard ( equivalent to corresponding BS/EU standard , if any referred in tender specifications) may be put up for approval and acceptance.
49		GENERAL QUERIES	We shall need all drawings related to the project	Complied with
50			All BOQ items mentioned in sets / lumpsum needs to be quantified .	Complied with
51	refer page 11 of NIT clause 35		Can we pay EMD vide BG ?	Yes, format attached .
52			Extension of date for submission of the tender . Minimum 15 days from date of reply to queries .	Last date of submission extended upto 13/08/2024 and date of opening of tender is extended to 14/08/2024.



53	Pls refer page 3 .	Please let us know if the estimated value given in tender NIT (Rs.53.53 Crore) is in basic or includes taxes .	Without GST. However this is an item rate tender and not based on the estimated value.
54	page no 22 clause 4.1.1.	Request your good office to include credentials of working in museums too since experience of exhibits are required	Tender condition prevails.
55		Since the proposed area of operation is heritage zone and nature of activity is also somewhat Rehabilitation in nature , request your good office to include credentials of heritage in pre qualification criteria	Tender condition prevails.

**BIDDER-2**

56		It is mentioned that Performance Security (PS) of 10% is required to be submitted on receipt of work award and Security Deposit of 5% will be deducted from each RA bill. This clause is not a standard practice and will put huge cash flow burden involving 15% of the project cost being retained by the Employer.	Thus, we request you to kindly waive of further deduction of Security Deposit of 5% from each RA bill.	Performance Guarantee will be @ 5 % of the STV , to be retained till expiry of Defect Liability Period. SD @ 5% shall be deducted from R/A bills and will be released after succesful completion of the work.
57		It is mentioned in Point no. 48 of Special Conditions of the Contract (SCC) that SD can be replaced with BG from Nationalized bank.	We request you to allow BG from Private/Scheduled bank also.	BG from Nationalised / Scheduled Banks would be allowed.
58		Clause no. 6.3 of General Conditions of Contract (CoC) mentions that frequency of RA bill is as per the discretion of the Engineer in charge. We pray that since huge amount will already be available with Employer in form of PS, we shall be allowed to submit monthly bills to aid the cash flow position in the project.	You are requested to please clarify the payment terms for the above project.	Agreed. Contractor to prepare soft copy of R/A measurements and would submit the same.

59		Item no. 5 of Part -F of Dry Dock Closure mentions item of Driving of Sheet Pile in Cu mtr.	Kindly confirm if it shall be Cu mtr or Sq. mtr.	The unit shall be Sq.Mtr. In response to e mail dated 06/07/24 , you arte requested to quotate considering the unit as Sq.Mtr.
60		Site office Clause 2.13 (iii) of SCC mentions 2 vehicle service for Employer and 2 vehicle service for PMC team. Please clarify the tenure, type of vehicle, new/old vehicle, fuel type, chauffeur driven or not, working hours, no. of working days in a month and inclusive of holidays or not for the said 4 no's of vehicles.	We request you to kindly incorporate this item in the BOQ as huge cost is involved in this.	This item stands deleted.
61		There are a lot of items requiring lumpsum quote. No drawing, design or specification of the same has been provided without which we are unable to access and submit the most economical rates of these items.	Please provide design, drawings and specifications of all BOQ items seeking lumpsum rates. Some BOQ items are as below: a. Part-A, Item no. A1, Sl. 1. b. Part-A, Item no. A6, Sl. 10,11,12,13,15,16, 19(iii), 20,21,22 c. Part-A, Item no. A7, Sl. 1-9	May please refer to the reply under Bidder 1 and the attached Annexures.
62	Part-A7, Special feature item Sl.no. 2	mentions providing for old ship along with repair and remodeling.	Kindly clarify if the old ship has to be provided by us and in what quantity and also provide the type of repair and remodeling involved in this.	Drawing & Quantity break up given .
63		Defect Liability	Kindly confirm that Defect Liability Period is of 1 year.	Confirmed.
64		Different items of BOQ mentions disposal of rubbish and/or other materials whatsoever from the project site but the lead is not mentioned.	Kindly specify in the BOQ as to what lead shall be considered by us and that the place of disposal shall be identified by the Engineer in charge.	Construction rubbish to be disposed off at C & D Waste Plant. Other serviceable materials to be forwarded at CMM compound at Panbazaar.

65	In landscape work, part-A6 item no. 14,	we require the details of type of trees, palms and shrubs to be installed. We need details of quantity, height and type. The rate to be quoted is in sq.m which is very difficult to access.	You are requested to kindly change this to per pc.	An estimated BOQ with quantities only is attached as Annexure-VI . The bidders are required to quote rate against the individual items and the total needs to be carried over to the item BOQ as a LS amount. Any variation during execution shall be paid as per rates quoted in Annexure - I and as per relevant tender clause on extra item of work.
66	In Part-A6 landscape work	, you have mentioned in items 16, 17 & 18 that one year maintenance is to be undertaken for which payment shall be made. Since, final bill will be paid on completion of scheduled completion of the project i.e. 24 months, but the maintenance of these will take place during DLP period	then how will these above items be paid for during DLP since final bill will already have been submitted and paid for.	Rate shall be quoted accordingly to cover the future maintenance cost of 12 months within DLP.
67	In Part-A2, item sl. No. 1 related to Piling works,	it is mentioned that rate is to be quoted inclusive of the rate of concrete. We believe this is an error since, the rate of concrete is available separately also in sl. No. 2 of Part-A2.	Kindly clarify.	Rate of item No.1 is excluding cost of concreting.
68		We want to confirm that payment made to us will be bill value plus 18% GST altogether at the same time. The GST amount shall be paid to us along with the bill value after which we shall deposit the same and reconcile with the GSTR. It is bad in law and not a standard practice to hold the GST amount payable to us and expect us to first deposit the amount and seek reimbursement from you. GST can only be deposited after the same has been received from the Employer. GST cannot be deposited on anticipation of receipt of the same from the Employer as huge amount is involved in this and this shall severely affect the cash flow position of the project.	Please clarify the same.	Existing system shall prevail. In response to e-mail dated 06/07/24 , please note that GST part is being withheld for payment till filing of GSTR-1 and GSTR-3B.
69		interest free mobilization advance	We request to provide for interest free mobilization advance of 10% against the above project.	Not admissible.Tender condition prevails.

70		Please provide all design, drawings etc for the above project to enable us to understand the scope and quantum of work and quote the most economical rates for the same. The detailed study of the existing structure like sheds, lock gates etc which have to be retained should also be provided to us.	We request you to mention the percentage of the existing structures that shall be retained.	Tender drawings provided separately.
71		which part of the newly constructed structure requires piling work.	Please clarify	Proposed light House structure.
72		As per site visit, it is seen that it is not possible to drive the sheet piles at the proposed sheet pile location as there is no space for movement of crane and vibro hammer.	Please clarify methodology of the same.	Tender condition prevails. In response to e-mail dated 06/07/24 , please note that sketch showing proposed work scheme attached.
73		GENERAL	We request you to kindly confirm whether quantity of cast iron is 300 quintal or 300 MT. We also request you to incorporate additional qualification criteria of experience of at least 30MT of decorative cast iron works since it is a specialized work.	Break up with design , number and estimated quantities are attached Annexure-VII. Bidders are required to quote for the entire amount with a break up sheet as given. Any variation shall be adjusted as per rate quoted / number for that particular type. The unit may be considered as per number of each type. For 2nd point , tender condition shall prevail.
74		site location	We request you to kindly confirm whether the said site location is a heritage site and if any special qualification criteria of having previous work experience in heritage area is required or not.	Not required. Tender condition prevails.
75	In the BOQ	few items have the Make mentioned which makes it extremely restrictive and difficult to procure/execute. We request you to provide those items where at least 2-3 vendors are available for supply else there is a strong risk of the project is delayed due to the dependency on a single vendor. For example, item A5 - Sl. 8, A6 - Sl. 3, A6 Sl. 19 etc.		After award of work any Make In India brand conforming to tender specifications and relevant Indian Standard ( equivalent to corresponding BS/EU standard , if any referred in tender specifications) may be put up for approval and acceptance. Makes are mentioned for specifications as reference only.

76	Clause of GCC	3.5	It is seen that as per Clause 3.5 of GCC there is provision of release of 50% of SD and Performance Security on completion of half of DLP period and balance 50% after completion of DLP. Kindly confirm the same. Thus, you are also requested to kindly clarify that submission of 2 bank guarantees of 50% of the amount of performance security and SD for half of the DLP period and balance 50% till completion of DLP.	Kindly confirm this.	GCC clause prevails.
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**Bidder 3**

77	General		We want to deposit EMD in the shape of Bank Guarantee, format of which is not available in the tender documents. There is a format of bank guarantee against security deposit and performance guarantee but for EMD, the format is not available.	Kindly do the needful so that we can participate in the tender within the scheduled time.	EMBG format attached.
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**BIDDER 4**

		1	Renovation and Retrofitting of existing structures		
78			During site visit it was observed that the existing structures are in dilapidated condition located in the proposed construction areas which appears to be lying abandoned over the years.		
			A. Hence, if these structures are to be retained and renovated, SMPK is requested to kindly arrange to ensure structural stability certificates from appropriate Government Authorities and the same are requested to be issued to the successful bidder to indemnify bidders/contractors harmless from any obligations for the SAFETY or any other related matters of the existing structures likely to be renovated/retrofitted.		Rehabilitation and retrofitting shall be done to extend the service life of the structures proposed to be used. So it is felt that additional structural safety certificate is not required to be issued.
79			B. You are requested to kindly arrange to release drawings clearly indicating separately		
			(i) existing structures to be demolished and		Standalone dilapidated masonry rooms shall be demolished. As marked in the drawing.

		(ii) existing structures which require renovation and retrofitting.		Existing sheds shall be renovated and retrofitted. It will be the responsibility of SMPK to earmark such srtructure and the contrcator has to carryout the related work as per BOQ items. Please refer Annexure- VIII as tender reference.
	2	Revised layout.		
		Kindly arrange to issue Revised Layout of the Project		
80		A. with correct locations of the proposed structures		Tender layout provided as above.
81		B. after incorporating following facilities, as may be found suitable by SMPK for Security and Logistics requiredfor the proposed facilities likely to be utilised by Tourists and Dignitaries		
		1. Security Patrolling Road around the premises		Existing pathway /road network will remain unchanged.
		2. Suitable Steel Grill Fencing		Fencing as required already considered in the scope of works.
		3. Flood Light Masts		Area illumination already included in the scheme of works.
		4. Security Surveillance system		Physical system already included in the scope of work. Manpower deployment not in the scope of this tender.
		5. Fire Station		Fire Fighting considered in the Scope Of Works.
		6. First Aid Centre		To be considered by succesful bidder during execution and later on by the operator of the facilities.
		7. Watch Towers		Not required. A viewers gallery in the form of a Light House considered in the scope of work.
		8. Green Verges / Landscaping		Already included in the scope of works.

82		C. It is observed that the proposed structures are made as low height structures, with large amount of footprints occupying more land area. By reducing footprints with multi level proposed structures , area of free space may be created; which could be utilised for more amenities or landscaped gardens or open air recreational facilities. It may kindly be reviewed, if found suitable. Kindly confirm.		The scheme of works as conceived during estimation and tendering prevails.
83	3	Drawings of existing underground utilities including live electric power cables.		Contractor has to work with caution by first manual excavation / trial pits and then mechanical excavation , if the same is required. During execution regular interaction with SMPK officials is required.
84		A.Kindly arrange to issue these drawings to enable bidder to take adequate safety measures, cost and timeinvolvement, during project execution.		
85		B. Please confirm that the removal of such underground utilities shall be borne by SMPK separately by other agencies.		NIT condition prevails.
86	4	Estimated Project Value and Revised Bill Of Quantities		Existing BOQ prevails with Addendum & Corrigendum.
87		The estimated value of works i.e. INR 53 Crore appears to be much below as per present market prices considering the anticipated proposed scope of works and incidental expenditures involved in this type of project involving various activities which cannot be known at the bidding stage where part of the work site is inaccessible. Kindly arrange to incorporate such additional items as can be assessed by SMPT being the Project Owner having the details of Work Site and issue the		
		a. updated Bill of Quantities		Existing BOQ prevails.
		b. updated project value		This is an item rate contract.
88	5	Request for extension of Due date of Bid submission		Please refer Corrigendum
		We hereby request you to kindly arrange to extend the due date of submission of bid till 10 th June 2024.		

**BIDDER 5**

89	Detailed technical specifications of 6.6 KV/415V Transformer , 11 KV RMU , 11 KV HT VCB panel and APFC Panel alongwith SLD are required .	SLD Annexed. Please refer technical specifications and tender drawings for further details.
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BOQ Section A - Sub Section A7 - Item No. 9 ( BANK DEVELOPMENT...) Stands Deleted- RATE NOT TO BE QUOTED.



← Image of FRP Dustbin

























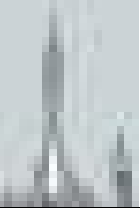










**SYAMA PRASAD MOOKERJE PORT, KOLKATA**

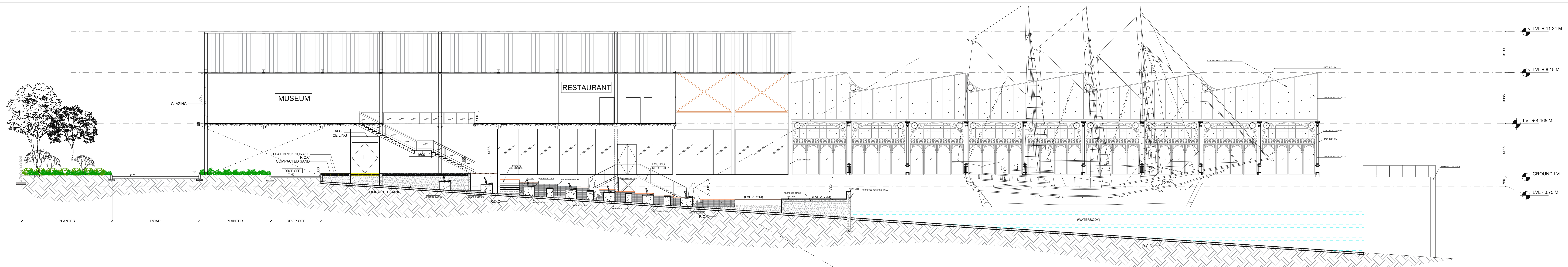
<b>Retrofitting Boq</b>			
<b>ANNEXURE-I</b>			
<b>SL.NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>
1	<b>Scaffolding:</b> Providing Scaffolding using MS Pipes and couplers and or H -frame, bracings or combination of these to arrive a suitable grid of scaffolding for accessing all the elements of building from inside as well as outside. The pipe size should not be less than 40 NB medium class. the measurement will be done on the basis of vertical area in plan covered by scaffolding.	Sqm.	5000
2	<b>Barricading:</b> Providing , erecting, maintaining and removing temporary protective barricading / screens of 1.8 m in height made in panel with each panel having minimum 40x40x6mm size MS angle frame with minimum 24 gauge thick G.I. corrugated sheet or suitably stiffened plane GI sheet to quardened off the repair area or any excavation	Sqm.	500
3	<b>Cleaning of cementitious deposition:</b> Cleaning of cementitious deposition, debris etc. over floors, roof,around the structures, etc. manually and/or mechanically to enable the repair works to be executed including stacking, disposing of material etc. complete.	Sqm.	1500
4	<b>Temporary Supports:</b> Providing, fabricating & erecting temporary supports to the structural members like beams, slabs etc. to relieve the load on the members during breaking of damaged concrete, removal guiniting, excavation or any dismantling work as per the instruction of engineer in-charge/consultant. These supports shall be provided either in the form of props or trestles fabricated using structural steel as per the requirement and as per the instruction of EIC/Consultant. Item rate is inclusive of the materials, all labour, supervision, tools and tackles and transportation etc., complete as per specification and as directed.		
4.1	MS Props	Nos.	1100
5	<b>Cutting of Reinforcement:</b> Extra for cutting reinforcement bars by manual / mechanical means in RCC / RB work as per direction of Engineer-in-charge.	Sqm	1000
6	<b>Chipping:</b> Chipping of loose concrete from beams, columns & all other concrete surfaces to expose sound concrete beneath using light chisel & hammer & also preparing concrete surface to receive further treatment, disposing the debris as directed.	Sqm	1000
6	<b>Reinforcement Cleaning:</b> Cleaning reinforcement of total rust by tapping or using wire brush or any other suitable way including from behind and around the reinforcement bars to give it a totally rust free finished steel surface	Sqm	1500
7	<b>Rust Removal:</b> Providing and applying approved alkaline chemical rust remover with paint brush and removing loose particles after 24 hours of its application.	Sqm	14000
8	<b>Shear Keys:</b> Providing and fixing shear keys using 10mm diameter TMT bars after drilling holes of 12mm diameter and 100mm depth at 02 Nos. /sqm area on the concrete substrate, cleaning and grouting the holes with two component epoxy resin based anchoring grout Masterflow 935 of BASF/Lokfix P of Fosroc or equivalent material. Item rate is inclusive of the materials, all labour, supervision, tools and tackles, scaffolding and transportation etc., complete as per specification and as directed.	nos.	400
9	<b>Column Jacketing :</b> With 16 mm thk M.S PLATE including all Materials & Labour.	Kg	25000
10	<b>Column Jacketing :</b> Ready mixed Self Compacting Concrete (SCC) of specified grade using batching plant, Transit mixer, Pumps / cranes etc, including cost of making shear keys provision of construction / contraction / expansion / crumple / control joint in various location laid, consolidated, vibrated and cured as per the specifications using 53 Grade OPC and hacking the exposed surface wherever required to receive plaster or floated steel trowelled surface wherever specified. The rate shall inclusive of admixture required if any and for providing recesses for columns; providing and placing sleeves and/or openings in columns, walls; providing etc. to the required shape, size and slope as shown in drawings. Item to include, all structural item like ramp, column, etc. of any shape and size for all lead and lift inclusive royalty.	cum	1000
11	<b>Carbon Fibre Wrapping :</b> Strengthening structural elements with non metallic composite fibre wrapping system comprise of uni- directional high strength carbon fibre sheet (200 GSM) and compatible saturate, by dry/wet layup system including the following and as per direction of Engineer-in-charge:-	sqm.	500
	Surface preparation : Grinding / moulding concrete substrate, cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete. Profiling : Applying compatible primer of approved make and brand on prepared substrate, Filling the holes and uneven surface with thixotropic putty etc. complete.		
	Wrapping : Wrapping the fibre sheet with approved / recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs.		
	Sand Pasting : Applying second coat of saturate after min12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes. (Mode of measurement : Per sqm surface area of application per layer).		
12	<b>Polymer Modified Micro-Concrete:</b> Providing and laying of polymer modified micro-concrete like Emaco S46 T of BASF/Renderoc RG (S) of Fosroc/ReCon MC 40 of Conmix or equivalent material blended with washed, saturated surface-dry (SSD), graded, low absorption, high density aggregates of size 8 mm & below up to 50% by weight of micro-concrete and water at 4 lit. per 25 kg bag and pouring into the form work using suitable pumping device for uniform flow of concrete. The side shuttering can be removed after 3 days and the bottom shuttering after 7 days ensuring proper bond between the micro concrete and existing concrete substrate. Item rate inclusive of all materials, labours, supervision, tools, tackles, transportation, fixing and thin film coated water tight shuttering, curing, scaffolding etc., complete as per specification and as directed.	cum	350
<b>TOTAL =</b>			

ANNEXURE-II

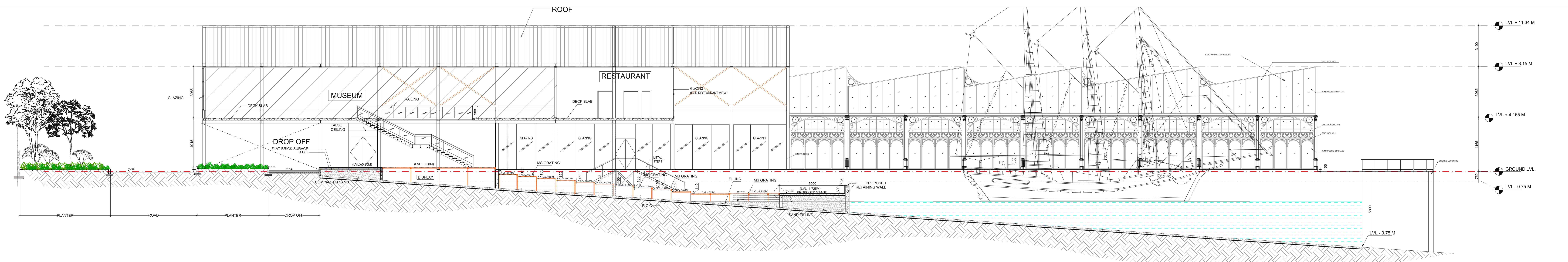
10	Supplying and providing of boughtout outdoor type furnitures at different landscape areas as per design/choice.					
6	Supplying,providing and installation of FRP make/other material sitting chair as per details.					
		Description	Quantity	Dimension(mm)	Image reference	
A		Picnic Table	29	1200x600 BENCH: 450MM TABLE: 900MM		
B		Chair Table set (4no.s chair. 1 no. table)	13	chair(450x450) table (700x700)		
C		Bench (Cast iron)	40	1500x450x450		
D		FRP Planter (Dark grey)	40	900x900x600		

S.NO	TYPE	Ref No As per tender	DIMENSIONS	MATERIAL	REFERENCE IMAGES				NO. OF UNITS	LOCATION
					PLAN	ELEVATIONS		ISO		
1	A1	A6, NS: Item no 12	3250 X 4500 X 4500	MS SECTIONS					1	near lighthouse
2	A2	A6, NS: Item no 12	2600 X 3600 X 3600	MS SECTIONS	SIMILAR	SIMILAR	SIMILAR	SIMILAR	2	near lighthouse
4	B1	A6, NS: Item no 12	6250 X 3000 X 3000	MS SECTIONS					1	near lighthouse
5	B2	A6, NS: Item no 12	5300 X 3000 X 3000	MS SECTIONS					2	near lighthouse

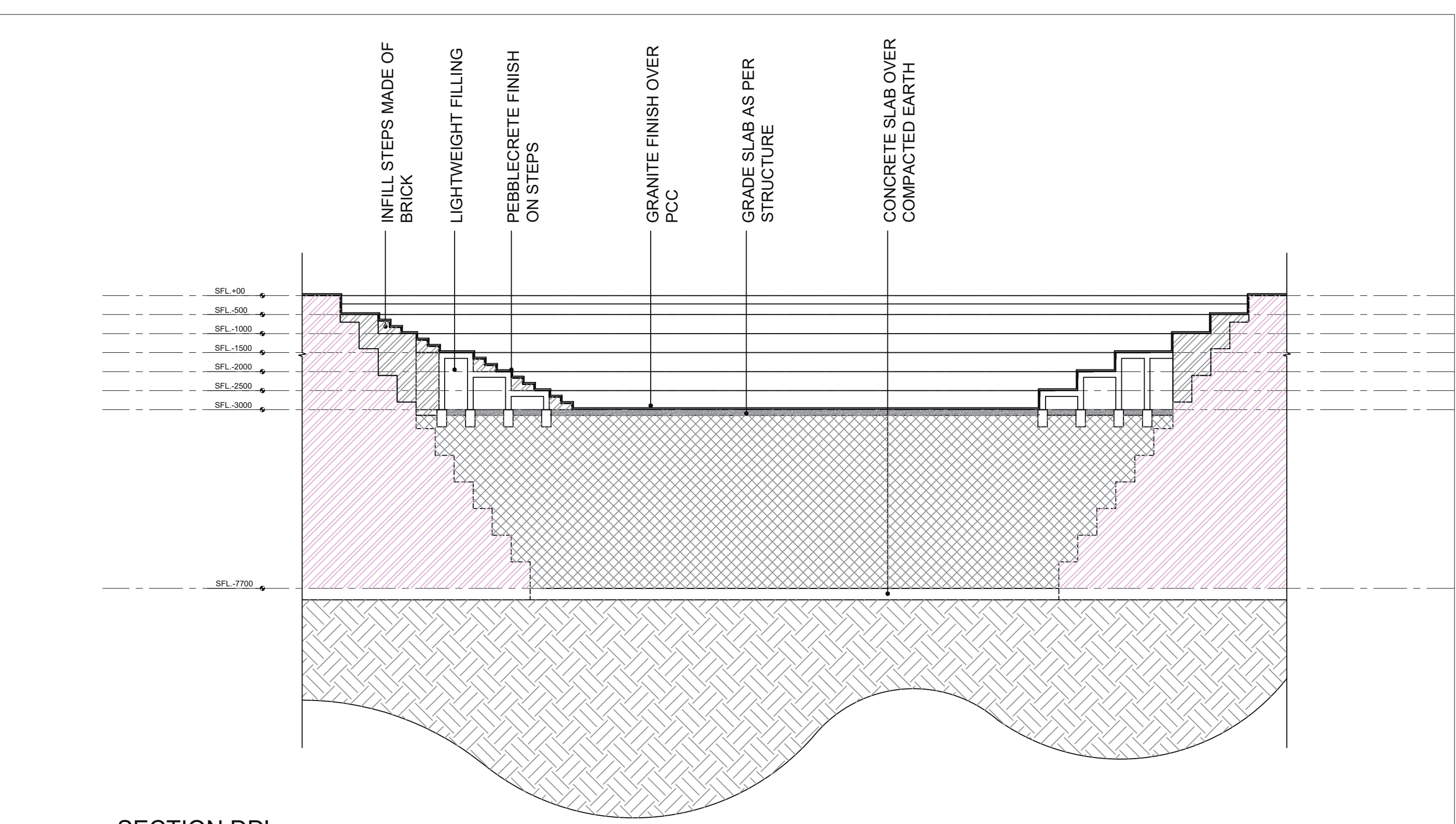
S.NO	TYPE	Ref No As per tender	DIMENSIONS	MATERIAL	REFERENCE IMAGES				NO. OF UNITS	LOCATION
					H X L X B (mm)	PLAN	ELEVATIONS	ISO		
6	C	A6, NS: Item no 12	4250 X 6000 X 2900	GFRC/ FRP				1	near lighthouse	
7	D	A6, NS: Item no 12	4900 X 6000 X 2400	FRP		 		1	near lighthouse	
8	E	A6, NS: Item no 12	3750 X 15250 X 3700	WOOD					1	near lighthouse
9	F	A6, NS: Item no 14	3900 X 21250 X 4900	WOOD					1	infront of museum



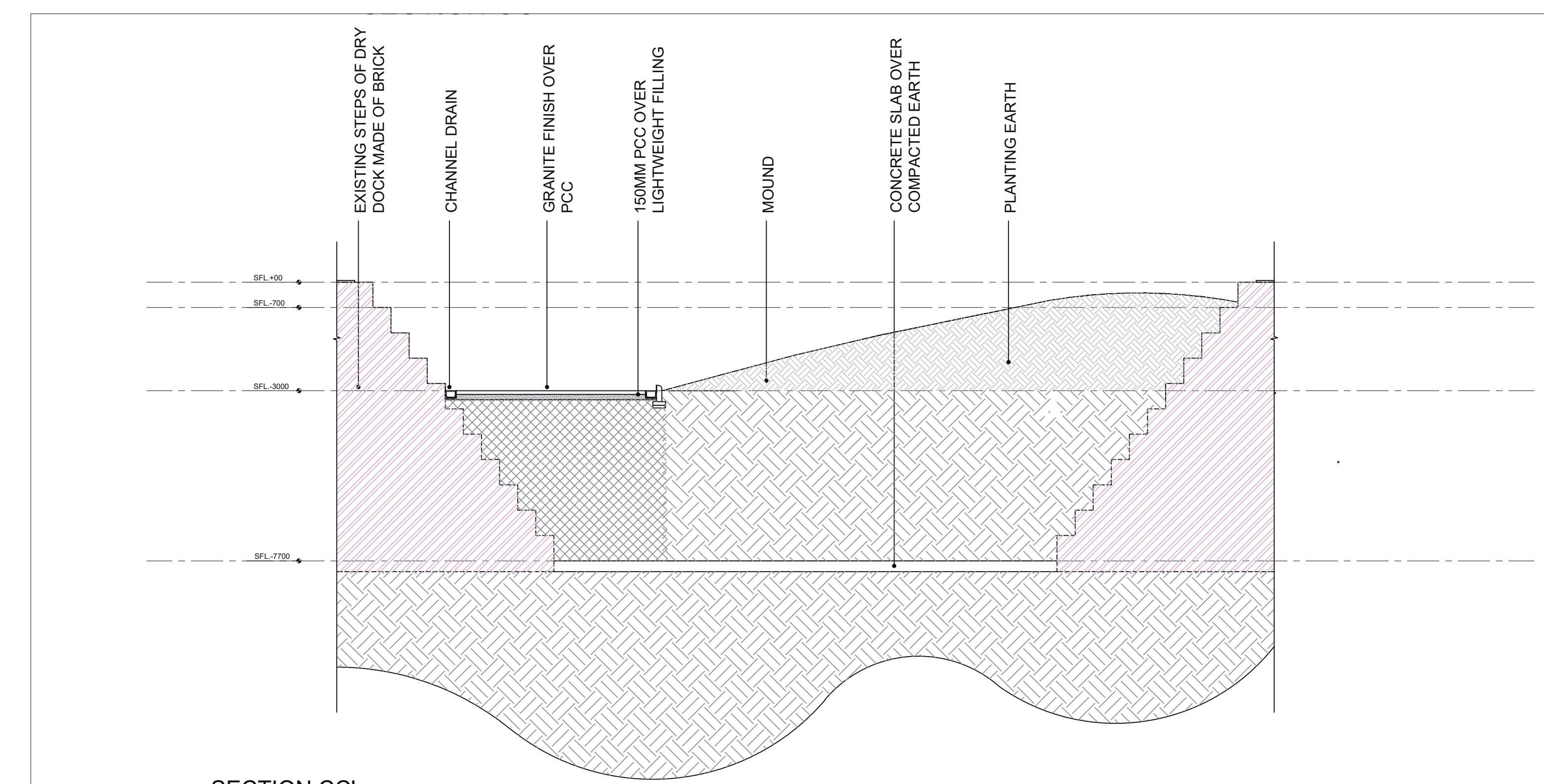
01 SECTION ZZ  
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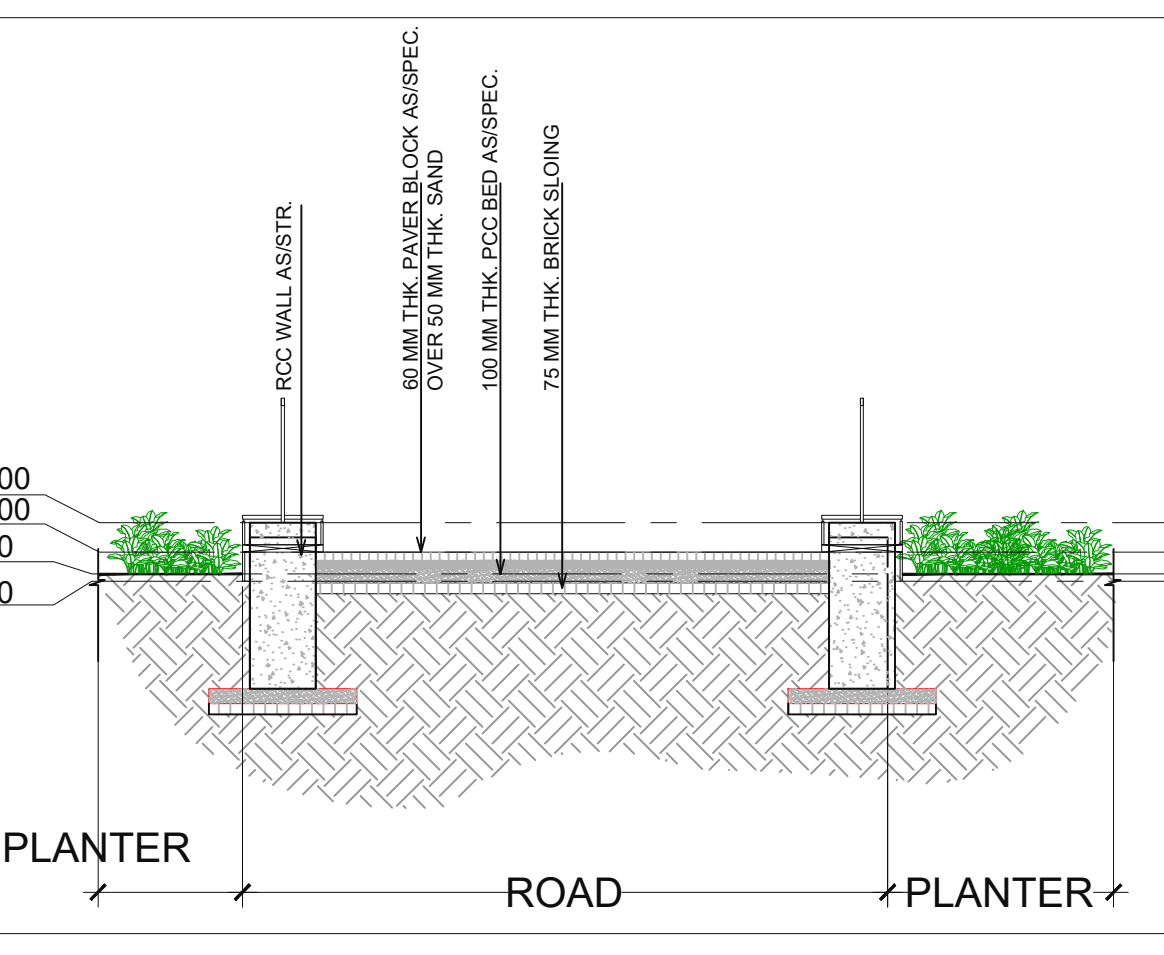
01 SECTION XX  
SCALE = 1 : 100



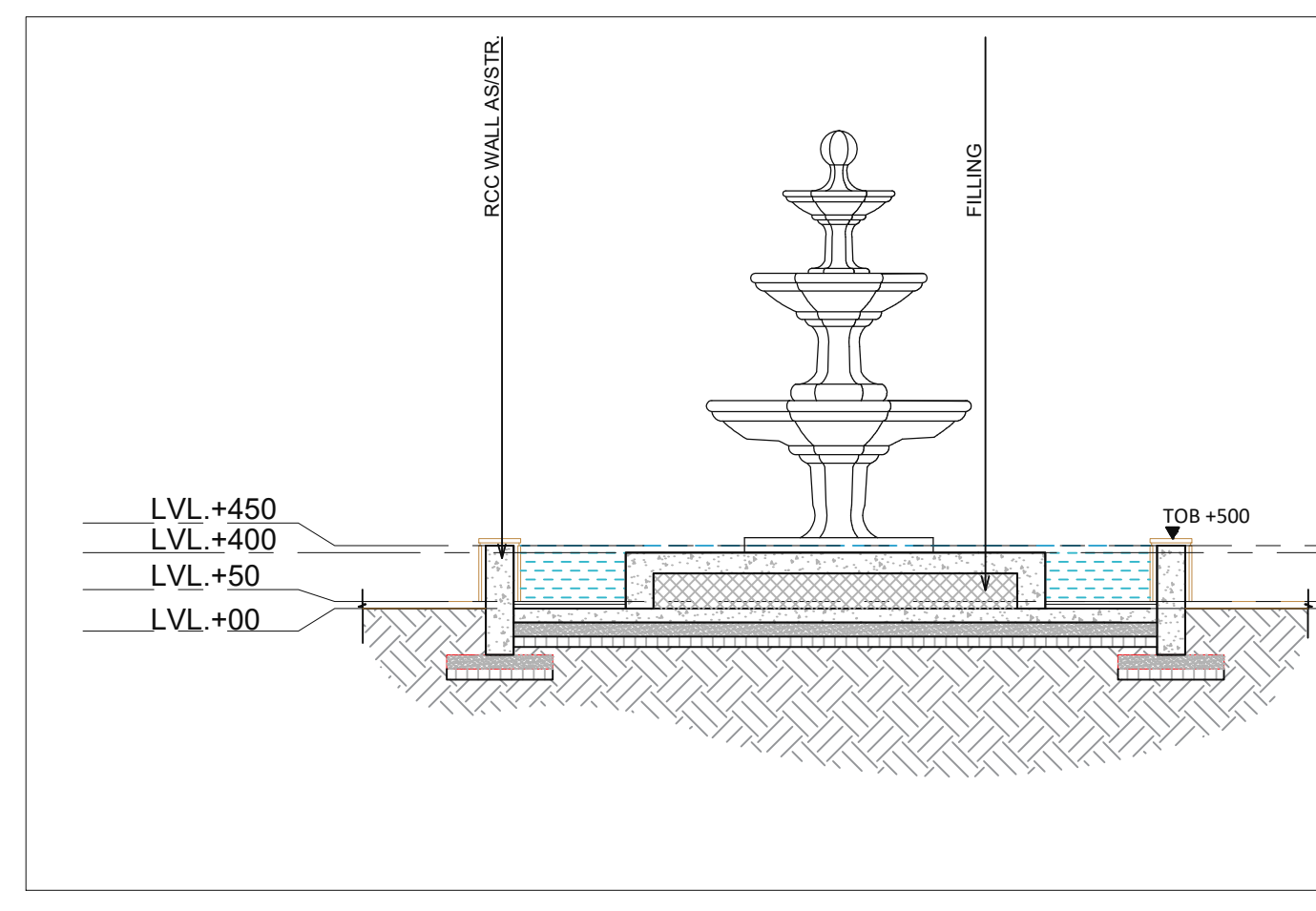
03 SECTION DD'  
SCALE = 1 : 100



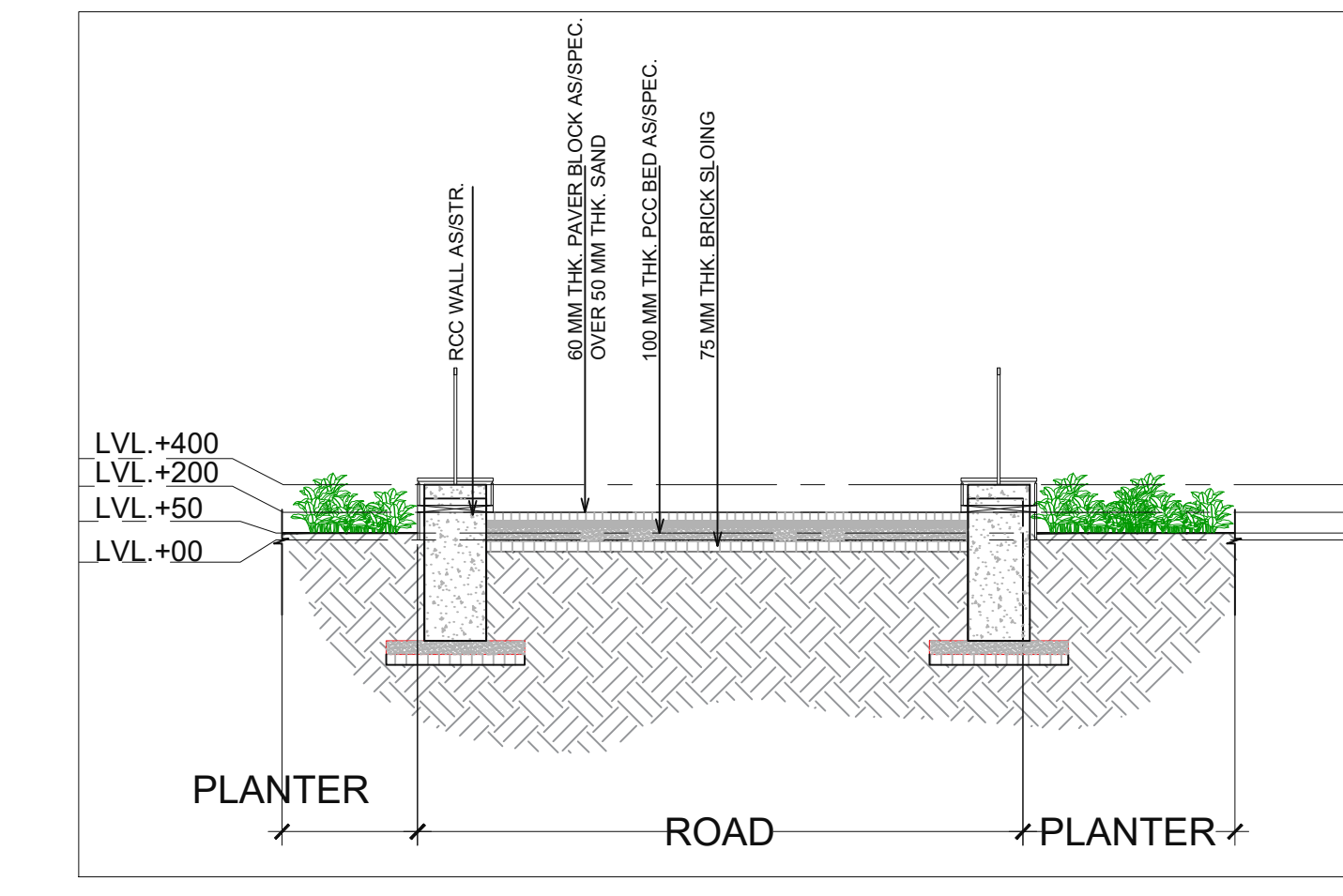
04 SECTION CC'  
SCALE = 1 : 100



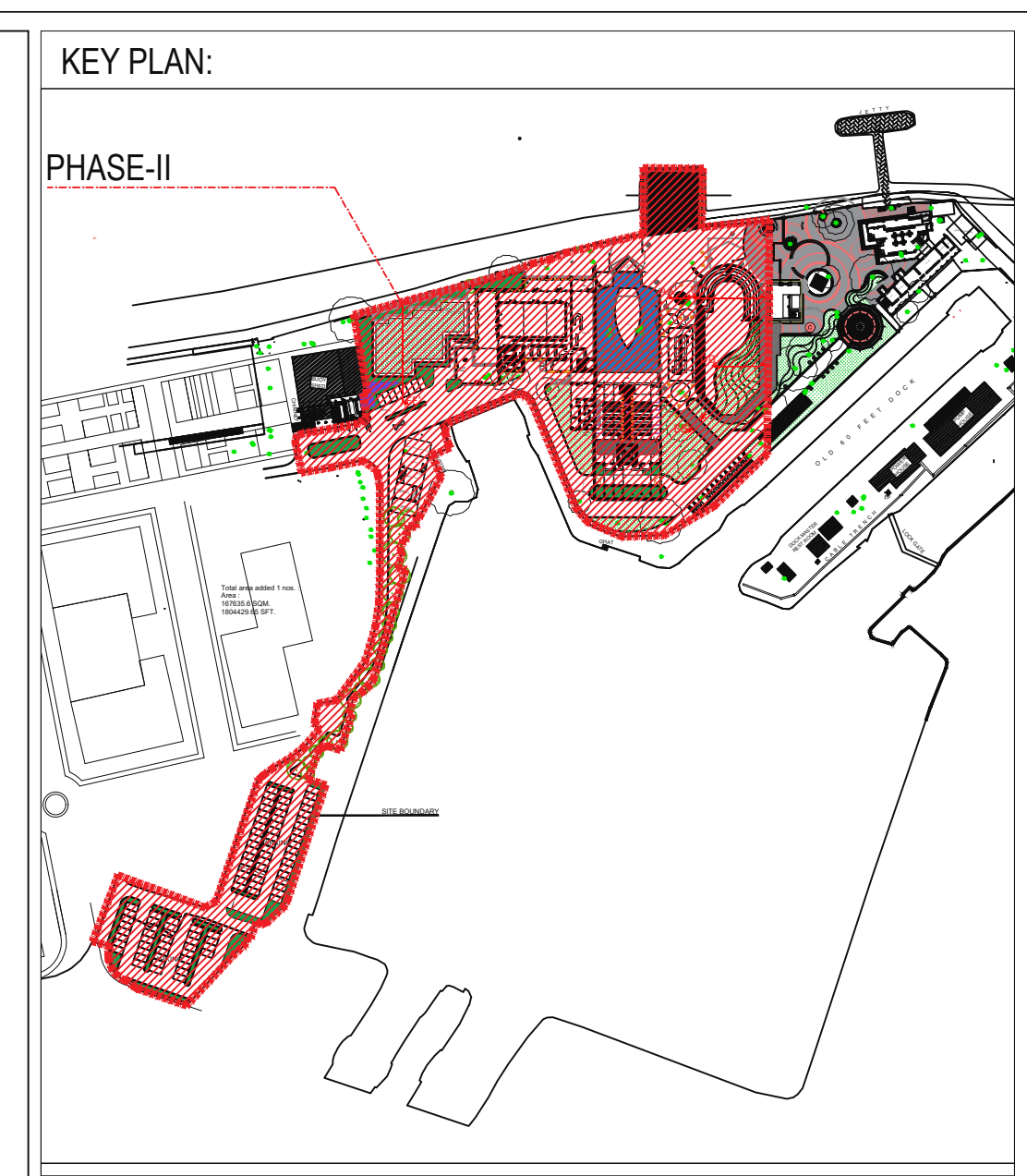
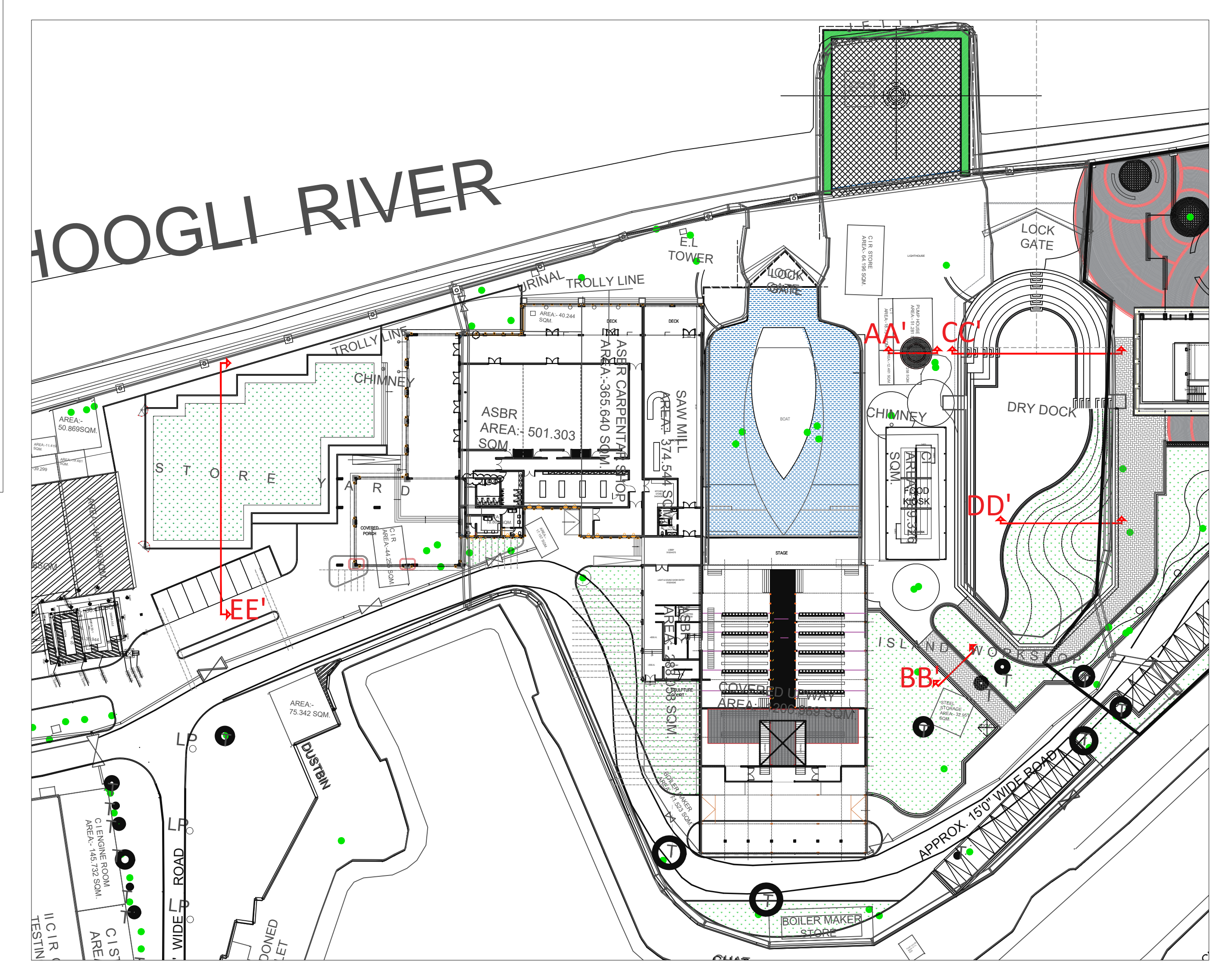
05 SECTION BB  
SCALE = 1 : 50



06 SECTION AA  
SCALE = 1 : 50



06 SECTION EE  
SCALE = 1 : 50



LEGEND:

PROJECT:

GENERAL NOTES:

CONSULTANT: MEP AND FIRE

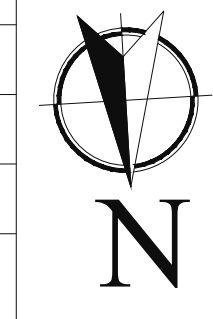
CONSULTANT: STRUCTURE

CONSULTANT: ARCHITECTURE, LANDSCAPE AND INTERIOR  
Ecostation, BP - 7, 8th Floor, Sector V, Salt Lake, Kolkata - 700091, India  
email: projects@salientdesignstudio.com  
Tel: 033-23670979, 23679080/81  
www.salientdesignstudio.com



CLIENT:  
**KOLKATA PORT TRUST**  
CIVIL ENGINEERING DEPARTMENT,  
15, STRAND ROAD, KOLKATA-700001






NO.	DATE	ITEM

TENDER DRAWING:  
TITLE: **LANDSCAPE SECTIONS**  
SCALE: 1:20  
DATE: 27.03.2023  
DRAWN BY: SS  
CHECKED BY: AR  
DWG. NO: MP-L-3101



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14	Supplying and providing outdoor type light fixtures Supplying and providing outdoor type light fixtures for illuminating the landscape areas (considered only light fixtures as per specification/select similar)for illuminating the landscape areas (considered only light fixtures as per specification/select similar)				
21	Outdoor Lighting as per design , drawing and specification.				
22	General Illumination as per design , drawing and specification.				
23	Facade Lighting				
		Description	Quantity	Dimension(mm)	Image reference
A	Bollard		22	SIMILAR TO KLITE 6952,9W LED RITU bollard 130X800	
B	Spike Light		74	SIMILAR TO KLITE NEBULA MICRO 3W LED	

C	Downlight	22	SIMILAR TO KLITE KARONA FORT MINI, 5187, 30W LED. Hung to tree with steel chain with padding to allow movement of the fixture due to wind	
D	Step Light	61	SIMILAR TO KLITE 2743, 12 W LED SUDO	
E	Pole Light	115	SIMILAR TO KLITE: 4978 RING FORT ART MICRO, 30W LED, A8, on 4m high pole black	
F	Mast Light	2	SIMILAR KLITE BRUSSEL SERIES KP-1065, P8, 4X45W LED, 7M high or equivalent	
G	Facade Light	30	SIMILAR TO KLITE KL-3078 SERIES-6W -LED	



## SYAMA PRASAD MOOKERJE PORT, KOLKATA

Annexure-VI

Project : Svama prasad mookerjee port trust, **Replica of ship boq**







SL.NO.	DESCRIPTION	UNIT	QUANTITY
1	Hi-tensile Structural steel work in single Square Hollow section, Rectangular Hollow section fixed with connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. Structural Steel shall be weldable quality. Yield strength of Hi-tensile SHS and RHS shall be 310 Mpa conforming IS 2062.		
i)	Hi-tensile steel in SHS and RHS	MT	1.5
2	Hi-tensile Structural steel work in single Circular Hollow section, fixed with connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. Structural Steel shall be weldable quality. Yield strength of Hi-tensile CHS shall be 310 Mpa conforming IS 2062.		
i)	Hi-tensile steel in CHS	MT	2.75
3	Mild Steel Structural accessories, including cutting, fixing in position and applying a priming coat of approved steel primer all complete. Yield strength of mild steel section shall be 250 Mpa, as per IS2062.		
i)	Mild steel Anchor bolts	MT	0.25
ii)	Mild steel for accessories including sag rods and flange bracings	MT	0.5
4	Hi tensile galvanized structural fasteners of grade 8.8 and 10.9 as mentioned in IS800-2007 and IS4000 conforming to specifications of ASTM A325		
i)	Hi tensile fasteners	MT	0.25
5	Supplying, fitting and fixing 8mm thick Laminated wooden Flooring Work conforming to EN13329:2006 with plank size not less than 1200mmX 190 mm (with unilin/tongue-groove locking arrangement) having 0.2mm thk top abrasive layer over a decorative layer followed by a High-density fibreboard (HDF) having density > 940 kg/m <sup>3</sup> substrate core over a resin saturated backing layer and installing through unilin or tongue-groove system (having locking strength not less than 1000 kg/m) over a 2 mm thk underlayer polyurethane foam on polythene sheet 250 micron, over a smooth, flat, hard subfloor free from moisture (< 8%), grease etc. complete in all respect with requisite accessories like end profile, transition profile, reducer 'T' profile etc. wherever required and preparation of base including all other incidental works as per direction & satisfaction of Engineer in charge. Cost of Laminate Floor Accessories only (Skirting, End edge, T- moulding, Reducer) shall have to be added separately, wherever required. (Note: This work should not be executed without specific permission of Superintending Engineer).		
i)	In Ground Floor: Category: High Footfall ; Class- 23; Abrasion resistance:-AC4 Thk on Swelling:- < 15% ; Impact resistance:- IC 2	Sqm	130.2
6	Providing and fixing IPE wood for wrapping using adhesive or screw as per direction by architect or engineer-in-charge. finishes with approve Penofin / oil as per direction by architect. Rate including all complete.	Sqm	176
7	Fabric Membrain for sail :Providing , designig and installing / erection in locations as shown in the drawings or directed by the engineer incharge outdoor Fabric of approved colour , cables, plates and necessary hardware for fixing the fabric with all complete. Warranty on fabric should be 10 years manufacturers standard warranty. Scope of work will be inclusive of wind tuneel testing with local conditions and proto type modelling.	Sqm	72
8	Supply, installation, testing & commissioning of LED PROJECTOR is Coded as UL1 with IP rating of 65 , Dimension( LxBxH/DxH) 398mm x 499mm x 73mm , watts 133W , Trim Colour- as per the slection by architect / landscape architect / interior designer , CCT is 3000K, reff. brand - Sill or equivalent (Complete with interconnection etc in all respect) and with all nessesary arrangement as per manufacturer's specification "in proper location as per Design & Drawing & all completed as per direction of the Architect or Engineering-in-charge.	Nos	2
7	Supply, laying and connecting of 1.5 Sq. mm double pair PVC insulated FRLS twisted shielded copper <b>conductor cable</b> in 20/0.2 mm dia in PVC FRLS conduit including all fixing accessories as required. ( High conductivity oxygen free stranded copper conductor).	Rmt	90
8	Supply, installation, testing and commissioning of <b>Wall Mounted Cabinet Speakers</b> of 15 W RMS power, with multitaps handling capacity, SPL at rated power not below 98 db, inbuilt 100 V Line Matching Transformer, Internal Tappings, Trapezoidal Compact Design, Optimized for speech and music applications. The encloser Cabinate must be ABS encloser with IP-65.	Nos	8
9	Supply, installation, testing and commissioning of rack mounted dual Channel Power <b>Amplifier</b> capable of delivering 300 W RMS power output or 480 W RMS burst output; complete with 100 V Line Matching Transformer, built-in fan for temperature control, Distortion typically 0.03% @ 1 KHz, Hum and Noise 90 dB below rated output selection facility, provision for hookup with Fire Alarm Panel, complete with connections and required circuitry. Vendor has to consider the number of Amplifier as per the provided tender drawing zone capacity for PA system and the quantity and capacity to be mentioned in their offer.	Nos	1
10	Supply, installation, testing and commissioning with micro phone including keypad as required for system. for <b>remote location</b> and interface with controller including communication cable and all accessories.	Nos	1
11	Providing and making climbing rope at different level on out side surface as per drawing , design etc. all complete including cost of all materials, lablur, scaffolding, T & P & instruction of EIC.	L.S	4
12	Providing and fixing decorative Cast Iron as per Design & Drawing & all completed as per direction of the Architect or Engineering-in-charge.	LS	1
13	External Facade Light fixtures		
	Supply, installation, testing & commissioning of facade light (Complete with interconnection etc in all respect) and with all nessesary arrangement as per manufacturer's specification "in proper location as per Design & Drawing & all completed as per direction of the Architect or Engineering-in-charge.	Nos	20

Sl.No.	Description	Quantity	Unit	Rate	Amount
Section A6, item 14	<i>Supplying and Planting of different plant / trees ( Supplying well grown plants bushy and healthy, minimum height as specified i.e. exposed height including all leads &amp; lift, carriage, handling, manuring, applying pesticide and fertilizer etc.</i>				
1	<i>Furcaria veriegated 10-12 leaves in height 20-30cm in earthen pots of size 25cm.</i>	1050	<i>Each</i>		
2	<i>Rangon hi-breed healthy plant.</i>	1050	<i>Each</i>		
3	<i>Duranta healthy plant of big size</i>	1050	<i>Each</i>		
4	<i>China palm of leaves 4-5 in earthen pots size 25cm</i>	1050	<i>Each</i>		
5	<i>Ficus bengalensis (variegated) of height 60-75cm in earthen pots size 30cm</i>	1050	<i>Each</i>		
6	<i>Ficus blakii (F. Vivicon) well branched (Bushy) of height 120cm - 135 cm in earthen pot of size 30cm.</i>	1050	<i>Each</i>		
7	<i>Ficus elastica Decora ( Rubber plant ) of height 90cm- 60cm in each earthen pot of size 25cm.</i>	1050	<i>Each</i>		
8	<i>Ficus infectoria (Pilikhan) of height 135cm-150cm in big polybag of size 25cm-30cm</i>	1050	<i>Each</i>		
9	<i>Ficus regnold well branched (bushy) of height 120cm- 135cm in cement pots of size 35cm.</i>	1050	<i>Each</i>		
10	<i>Acalypha species ( Red/Green) of height 30cm-90cm in earthen pots of size 25cm.</i>	1050	<i>Each</i>		
11	<i>Adenium obesum of height 90cm-60cm in earthen pots of size 25cm.</i>	1200	<i>Each</i>		
12	<i>Bougainvillea (name variety, bushy plants, full bloom) of height 90cm-60cm in cement pots of size 30cm.</i>	1050	<i>Each</i>		
13	<i>Croton (broad leaves) 3-5 branches of height 90cm- 120cm in cement pots of size 30cm.</i>	1050	<i>Each</i>		
14	<i>Hibiscus Rosa Sinensis of height 90 cm to 60 cm in earthen pots of size 20 cm.</i>	1050	<i>Each</i>		
15	<i>Hibiscus Variegated of height 60 cm to 75 cm in earthen pots of size 25 cm.</i>	1050	<i>Each</i>		
16	<i>Areca Palm 4 - 5 suckers of height 120 cm to 135 cm in earthen pots of size 25 cm.</i>	1050	<i>Each</i>		
17	<i>Dracaena (Song of India) of height 30 cm to 90 cm in earthen pots of size 20 cm.</i>	1050	<i>Each</i>		
18	<i>Dracaena Fragrance of height 90 cm to 60 cm in earthen pots of size 35 cm.</i>	1078	<i>Each</i>		
19	<i>Dracaena Green of height 30 cm to 90 cm in earthen pots of size 20 cm.</i>	1050	<i>Each</i>		
20	<i>Dracaena Marginata of height 30 cm to 90 cm in earthen pots of size 20 cm.</i>	1050	<i>Each</i>		
21	<i>Dracaena Reflexa of height 30 cm to 90 cm in earthen pots of size 20 cm.</i>	1050	<i>Each</i>		
22	<i>Dracaena Rosea of height 30 cm to 90 cm in earthen pots of size 20 cm.</i>	1050	<i>Each</i>		

23	<i>Dracaena Victoria</i> of height 30 cm to 90 cm in earthen pots of size 25 cm.	1050	Each		
24	<i>Dracaena Wameckal</i> of height 30 cm to 90 cm in earthen pots of size 20 cm.	1200	Each		
25	<i>Eranthemum Species</i> of height 30 cm to 90 cm in earthen pots of size 20 cm.	1200	Each		
26	<i>Hibiscus Rosa sinensis</i> of height 90 cm to 60 cm in earthen pots of size 20 cm.	1200	Each		

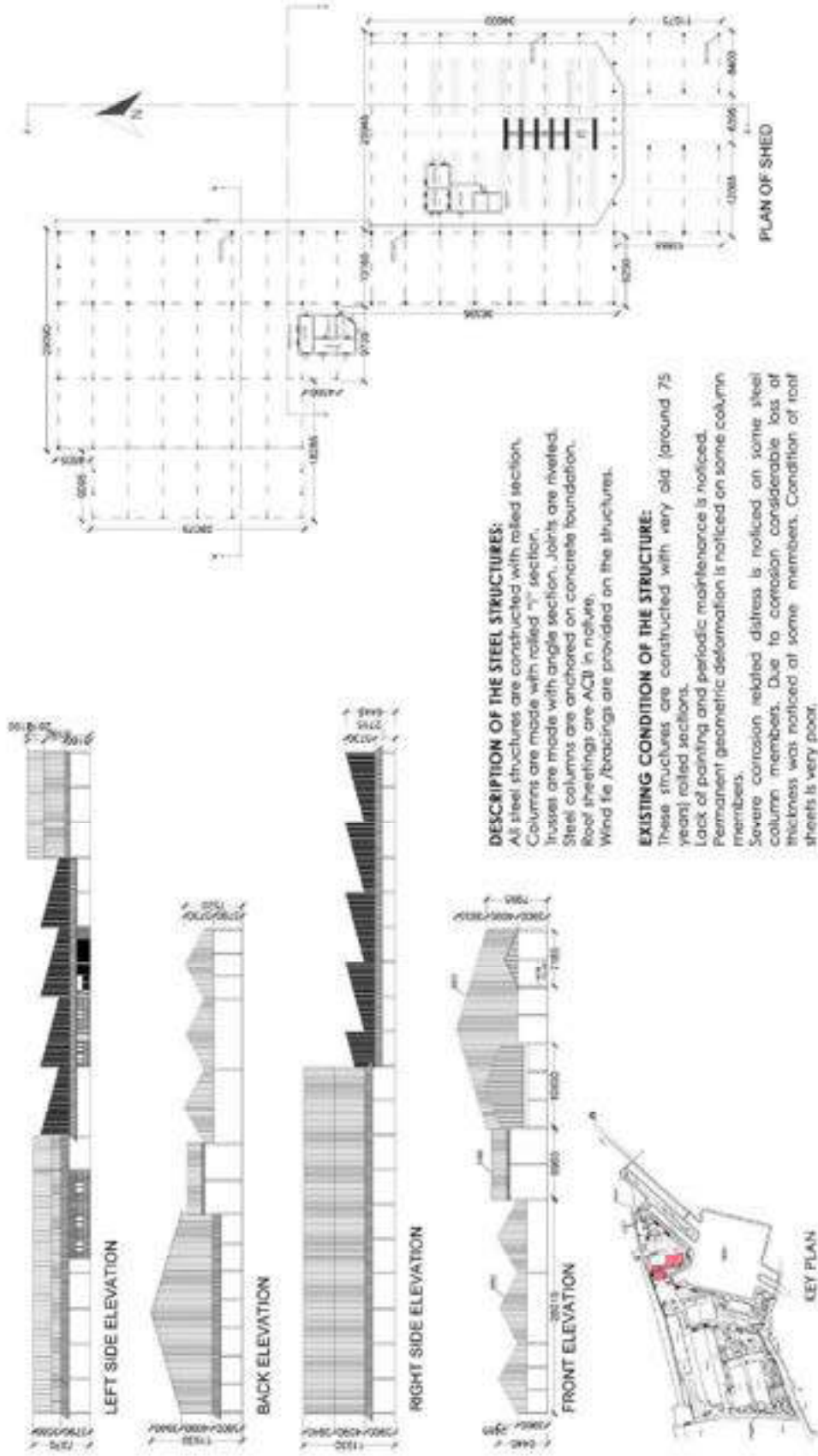
**SYAMA PRASAD MOOKERJE PORT, KOLKATA - CAST IRON**

Annexure-VIII

<b>Sr. No.</b>	<b>Full Item Description</b>	<b>NAME OF THE BLOCK</b>	<b>Drawing/Image</b>	<b>Qty</b>	<b>Unit</b>
1	Other Cast Article Of Cast Iron Jali-J1- With Colour & Fitting - (Width-4050 mm)	FOOD BLOCK		10	Nos
2	Other Cast Article Of Cast Iron Jali-J2- With Colour & Fitting - (Width-3000 mm)	FOOD BLOCK		6	Nos
3	Other Cast Article Of Cast Iron Jali-J3- With Colour & Fitting - (Width-1765mm)	MUSEUM BLOCK		7	Nos
4	Other Cast Article Of Cast Iron Jali-J4- With Colour & Fitting - (Width-3535 mm)	MUSEUM BLOCK			
5	Other Cast Article Of Cast Iron Jali-J5-With Colour & Fitting - (Width-4525mm)	MUSEUM BLOCK		20	Nos
6	Other Cast Article Of Cast Iron Jali-J6-With Colour & Fitting - (Width-4380 mm)	MUSEUM BLOCK			
7	Other Cast Article Of Cast Iron Jali-J7-With Colour & Fitting - (Width- 2850 mm)	BANQUET BLOCK		18	Nos
8	Other Cast Article Of Cast Iron Jali-J8-With Colour & Fitting - (Width-6945 mm)	BANQUET BLOCK		2	Nos

9	Other Cast Article Of Cast Iron Jali-J8 A- With Colour & Fitting - (Width-7250 mm)	BANQUET BLOCK		1	Nos
10	Other Cast Article Of Cast Iron Jali-J9- With Colour & Fitting - (Width-3315 mm)	BANQUET BLOCK		5	Nos
11	Other Cast Article Of Cast Iron Jali-J10- With Colour & Fitting - (Width-6000mm)	BANQUET BLOCK		2	Nos
12	Other Cast Article Of Cast Iron Jali-J11- With Colour & Fitting - (Width-4000mm)	BANQUET BLOCK		1	Nos
13	Other Cast Article Of Cast Iron Jali-J12- With Colour & Fitting - (Width-4450mm)	MICRO BREWERY		4	Nos
14	Other Cast Article Of Cast Iron Jali-J13- With Colour & Fitting	MICRO BREWERY		26	Nos
15	Other Cast Article Of Cast Iron Bracket- J14 - With Colour & Fitting (Size:1350mm*1350mm)	BRACKETS FOR MICROBREWERY		12	Nos
16	Other Cast Article Of Cast Iron Jali-J15- With Colour & Fitting (Width :1767.5mm)	*		16	Nos

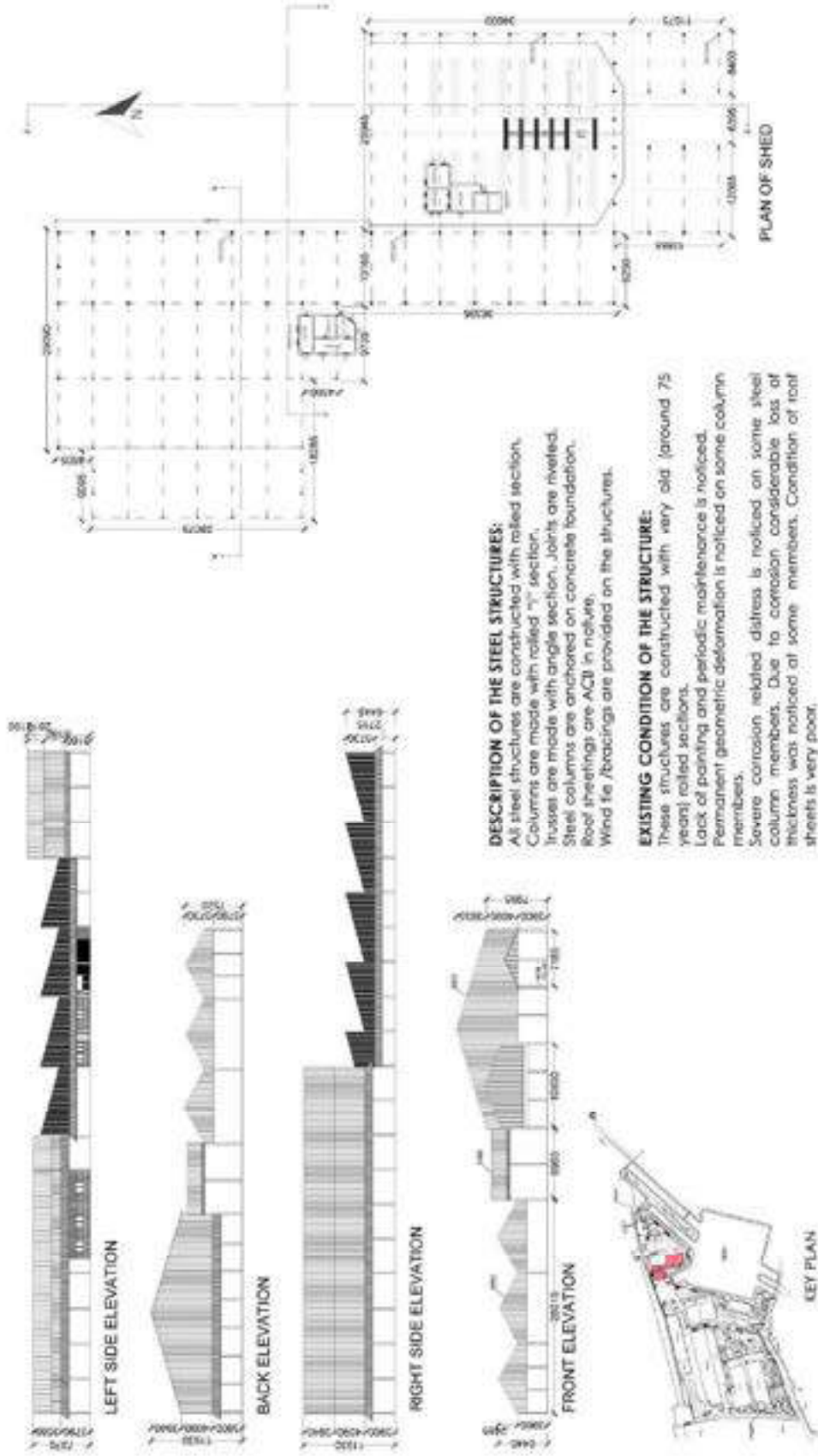
# EXISTING STRUCTURES



**DESCRIPTION OF THE STEEL STRUCTURES:**  
 All steel structures are constructed with rolled section. Columns are made with rolled "I" section. Trusses are made with angle section. Joints are riveted. Steel columns are anchored on concrete foundation. Roof treatments are ACB in nature. Wind tie /bracings are provided on the structures.

**EXISTING CONDITION OF THE STRUCTURE:**  
 These structures are constructed with very old (around 75 years) rolled sections. Lack of painting and periodic maintenance is noticed. Permanent geometric deformation is noticed on some column members. Severe corrosion related distress is noticed on some steel column members. Due to corrosion considerable loss of thickness was noticed at some members. Condition of roof sheets is very poor.

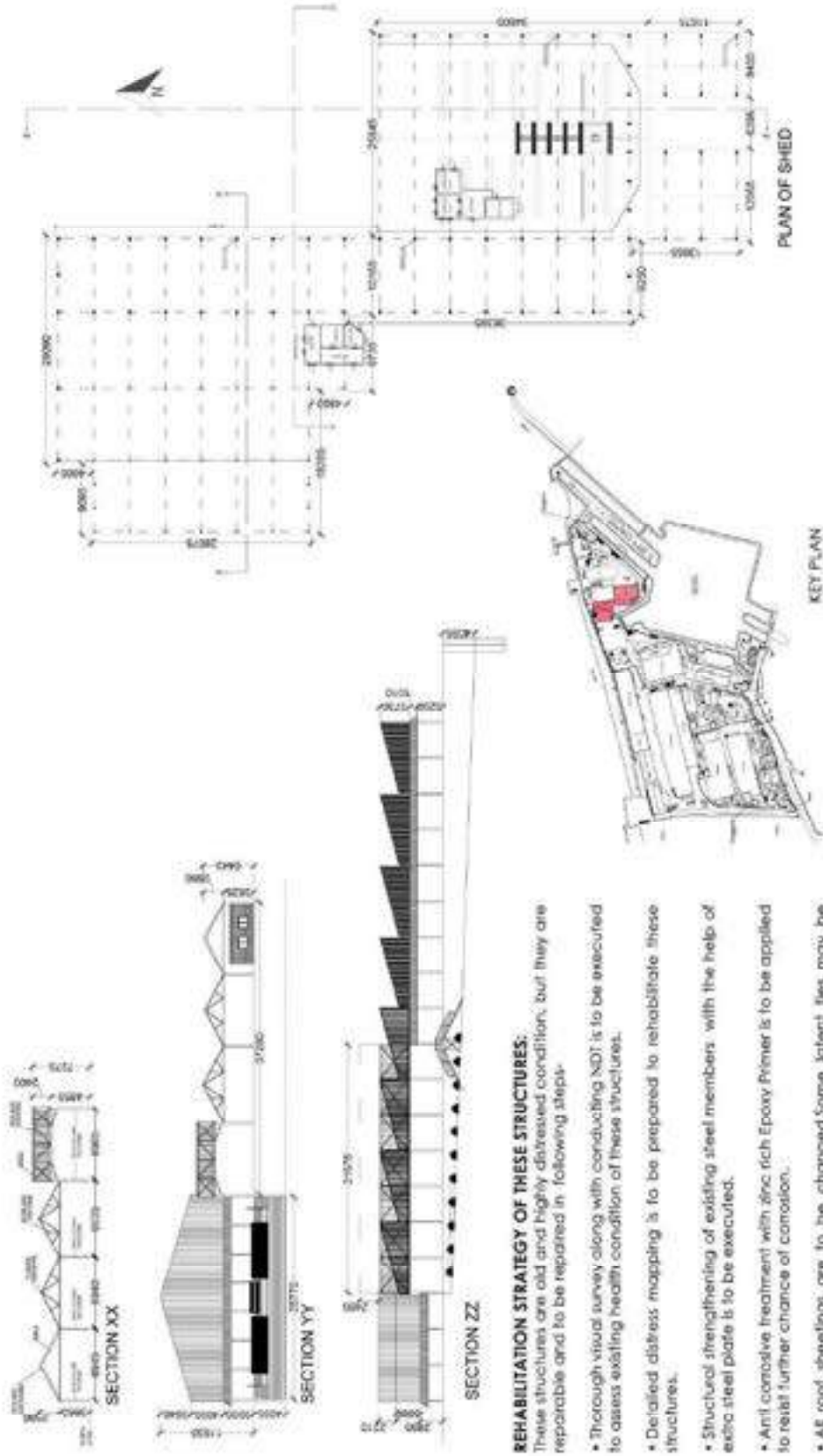
# EXISTING STRUCTURES



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# EXISTING STRUCTURES



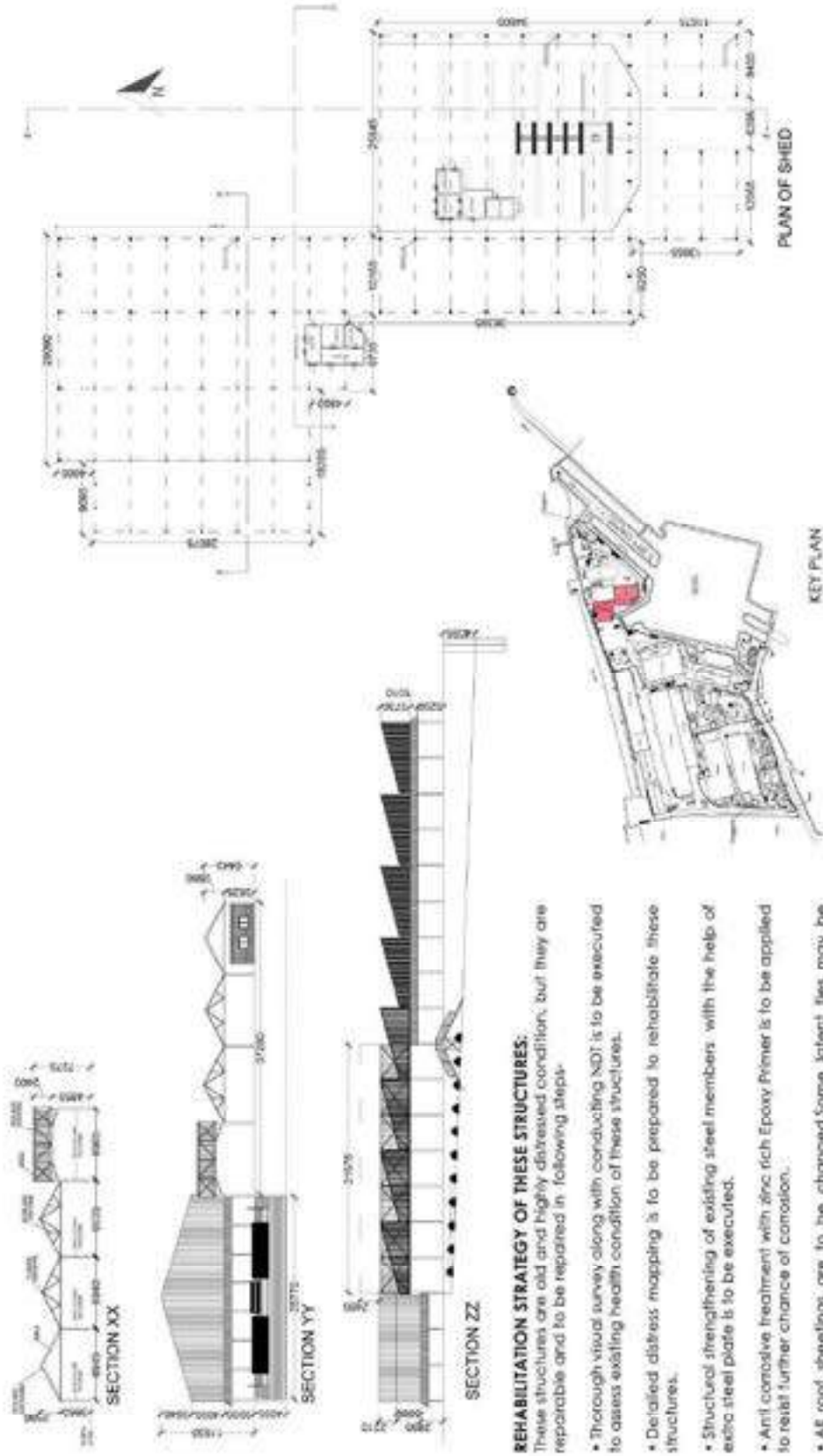
## REHABILITATION STRATEGY OF THESE STRUCTURES:

These structures are old and highly distressed condition, but they are repairable and to be repaired in following steps-

- Thorough visual survey along with conducting NDT is to be executed to assess existing health condition of these structures.
- Detailed distress mapping is to be prepared to rehabilitate these structures.
- Structural strengthening of existing steel members with the help of extra steel plate is to be executed.
- Anti corrosive treatment with zinc rich Epoxy Primer is to be applied to resist further chance of corrosion.
- All roof sheetings are to be changed. Some latent flies may be added to strengthen the existing structure against later loading.



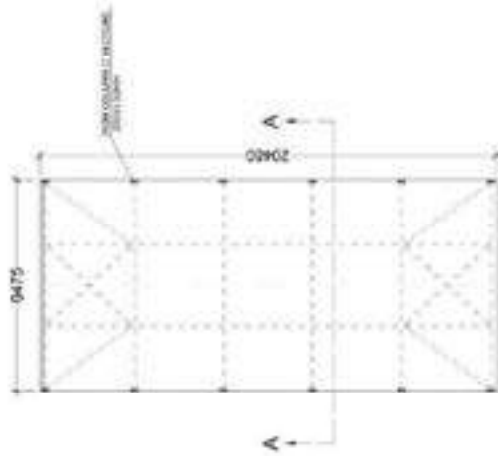
# EXISTING STRUCTURES



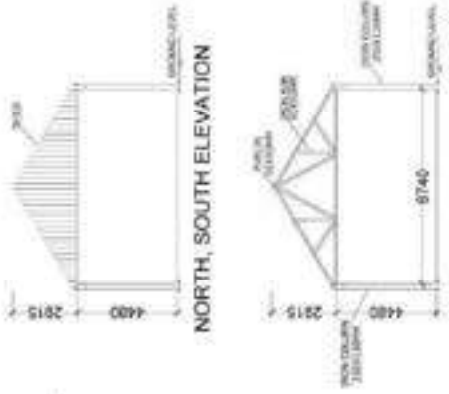
## REHABILITATION STRATEGY OF THESE STRUCTURES:

- These structures are old and highly distressed condition, but they are repairable and to be repaired in following steps-
- Thorough visual survey along with conducting NDT is to be executed to assess existing health condition of these structures.
  - Detailed distress mapping is to be prepared to rehabilitate these structures.
  - Structural strengthening of existing steel members with the help of extra steel plate is to be executed.
  - Anti corrosive treatment with zinc rich Epoxy Primer is to be applied to resist further chance of corrosion.
  - All roof sheetings are to be changed. Some latent flies may be added to strengthen the existing structure against later loading.

# EXISTING STRUCTURES



PLAN OF SHED



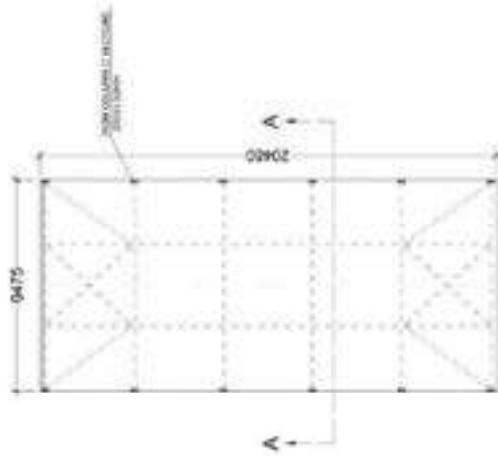
SECTION AT AA



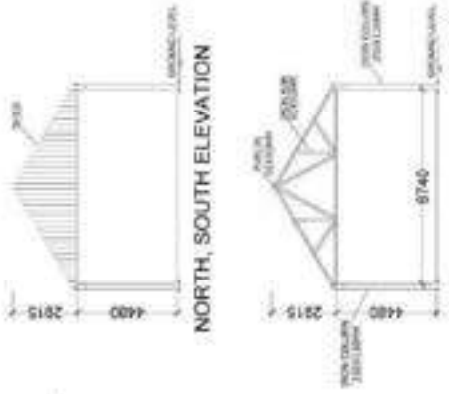
KEY PLAN



# EXISTING STRUCTURES



PLAN OF SHED



SECTION AT AA



KEY PLAN



# EXISTING STRUCTURES



Highly distressed condition of iron



Highly distressed condition of columns



Overall condition of iron structure



View showing overall condition of iron structure



Prominent geometric deformation of iron column



Corroded iron columns



Corroded iron columns



Condition of iron columns in low mill structure



Conditions of low mill



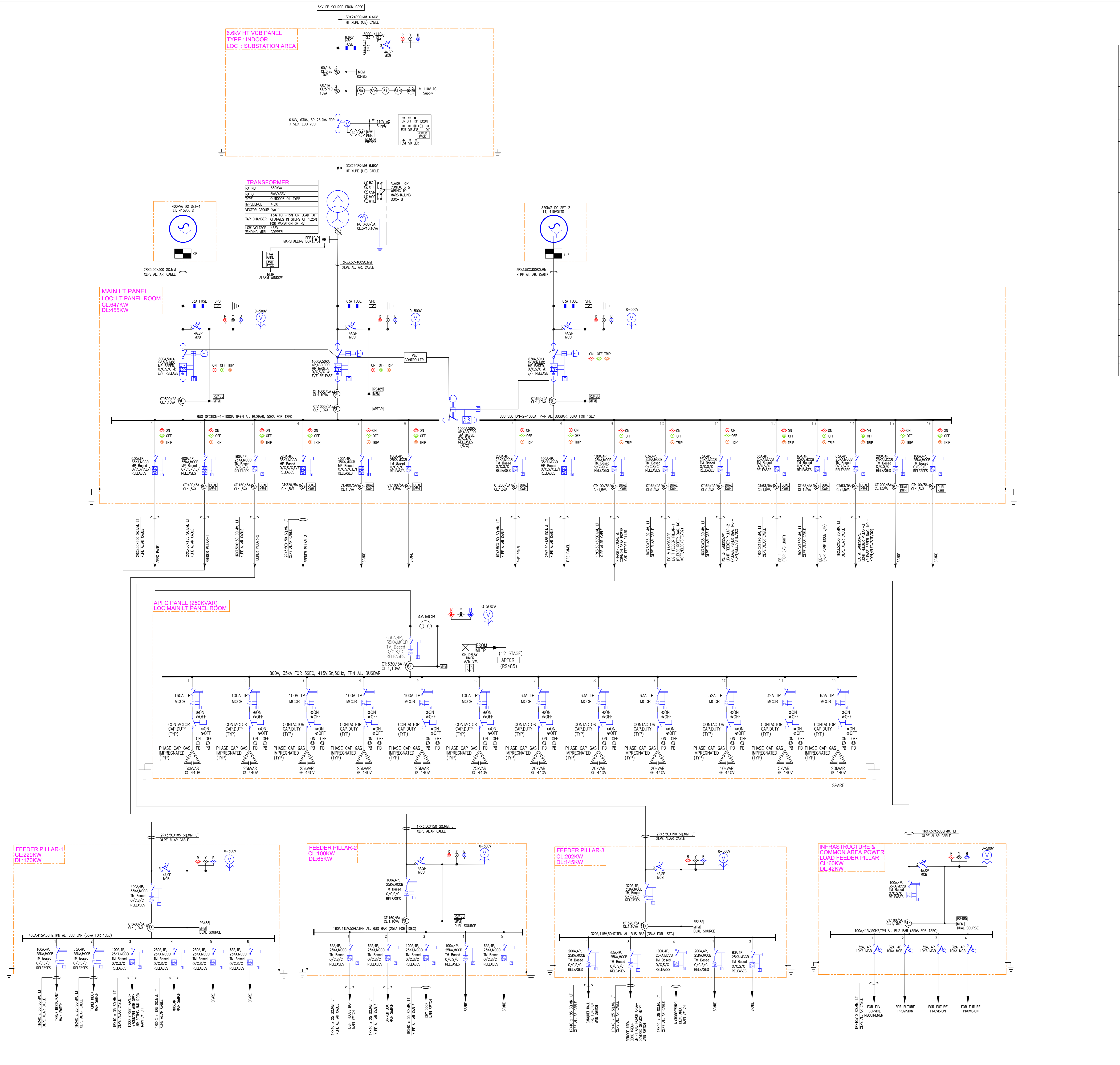
Conditions of iron columns



Floor condition of iron truss in low mill



Floor condition of roof sheets



**KEY PLAN:**

**LEGEND:**

SYMBOL	DESCRIPTION
	MOTORIZED BREAKER WITH MCCM (MCCB)
	TRANSFORMER
	DIESEL GENERATOR
	ELECTRICALLY OPERATED TYPE AIR CIRCUIT BREAKER WITH O/C, S/C & E/F RELEASES
	MOLDED CASE CIRCUIT BREAKER WITH O/C, S/C, & E/F RELEASES
	MOLDED CASE CIRCUIT BREAKER WITH O/C, S/C, & E/F RELEASES
	MINIATURE CIRCUIT BREAKER (MCB)
	FUSE
	PHASE INDICATOR LAMP
	STATUS INDICATOR LAMP
	INSTANTANEOUS OVER CURRENT RELAY
	NON-INSTANTANEOUS EARTH OVER CURRENT RELAY
	AC INVERSE TIME OVER CURRENT RELAY
	RESTRICTED EARTH FAULT RELAY
	TRIP OFF SUPERVISION RELAY
	METER
	DUAL SOURCE METER WITH METER

**PROJECT:**

**RIVERFRONT CRUISE TOURISM CENTRE AT KIDDERPORE**

**GENERAL NOTES:**

**CONSULTANT: MEP AND FIRE**

**unite** Experience the Change

UNITE SERVICE CONSULTANTS INDIA PRIVATE LIMITED  
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 EMAIL: spa\_cons@yahoo.co.in

**CONSULTANT: ARCHITECTURE, LANDSCAPE AND INTERIOR**

**salient**

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**CLIENT:**

**SYAMA PRASAD MOOKERJEE PORT TRUST**

CIVIL ENGINEERING DEPARTMENT,  
 15, STRAND ROAD, KOLKATA-700001

**TENDER DRAWING:**

NO.	DATE	ITEM

**TITLE:**

**ELECTRICAL MASTER SLD**

**SCALE:** NTS

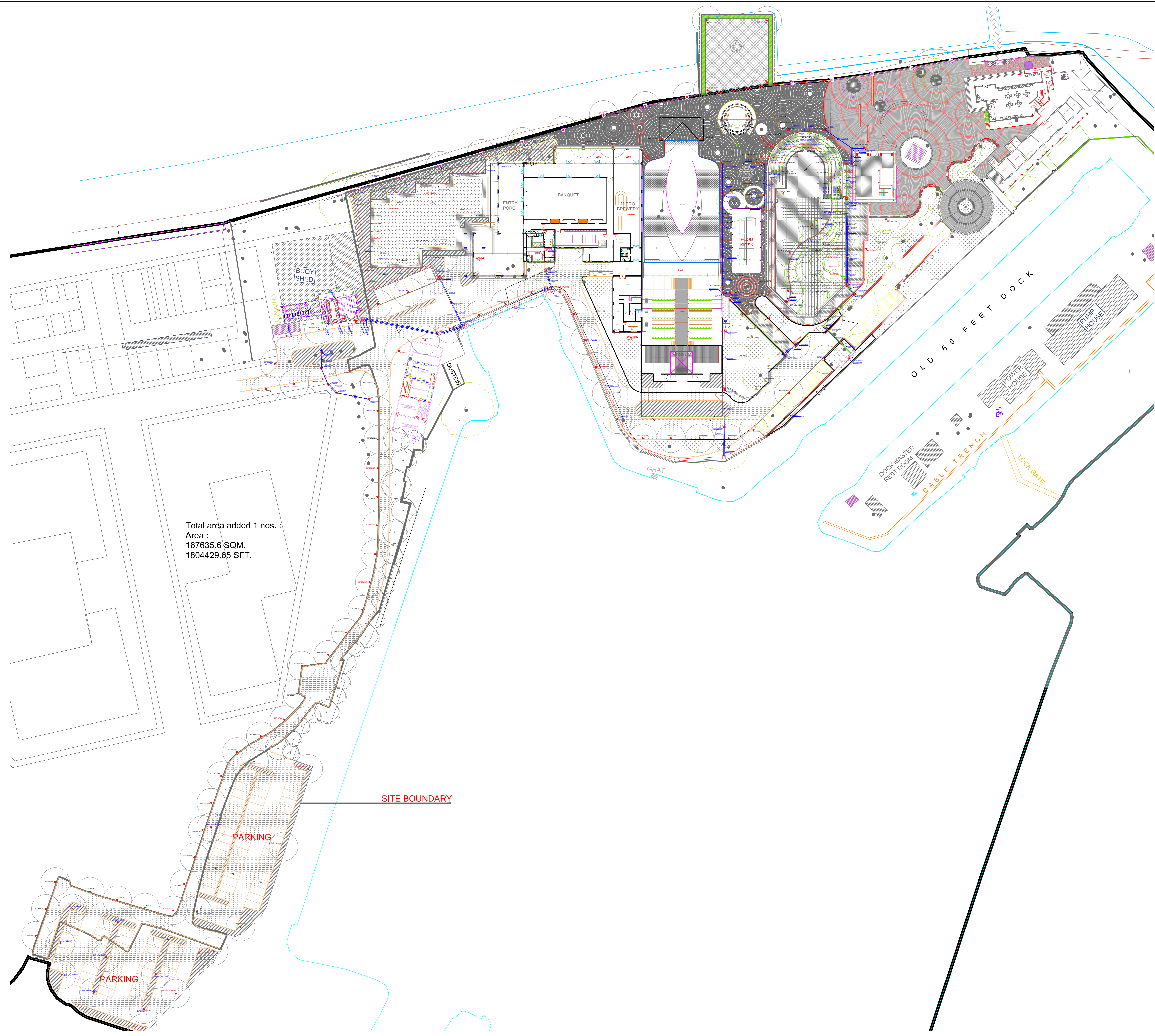
**ISSUE DATE:** 03.04.2023

**DRAWN BY:** RD

**CHECKED BY:** AP

**DWG. NO.:** KOPT/ELEC/SLD/01

**REV:** R0



Total area added 1 nos. :  
 Area :  
 167635.6 SQM.  
 1804429.65 SFT.

SITE BOUNDARY

PARKING

PARKING

LEGEND: EXTERNAL LIGHTING				
SYMBOL	DESCRIPTION	LOCATION	QUANTITY	SPECIFICATION
	BOLLARD	DOCK AREAS	22 NOS.	Ø62.5W LED RTU BOLLARD 1500X50
	SPINE UPLIGHTER	MOUNDS & PLANTERS	74 NOS.	VERULA MICRO 3W LED
	DOWNLIGHT (TREE HANGING) - POSITION TO BE FINALISED AS PER AVAILABILITY OF TREE BRANCHES	OVERALL	22 NOS.	
	STEP LIGHT	QAT STEPS	61 NOS.	2743.12 W LED SUDO
	POLE LIGHT	WALKWAYS AND PLAZAS	115 NOS.	FUNGALI HORSE POLE MOUNTED. PPS. 5.0/20'. 30W LED. 3003LM. HEIGHT 2850 BLACK
	MAST LIGHT	BANQUET LARAN	02 NOS.	BRUSSEL SERIES ØP. 165. PL. 4400W LED. 7M HIGH
	MAST 100MM TUBELIGHT (WALL MOUNTED) LIGHT	SS ROOM	13 NOS.	
	Ø16A POWER SOCKET	SS ROOM	4 NOS.	
	16A ONE WAY SWITCH	SS ROOM	3 NOS.	

PROJECT:  
**RIVERFRONT CRUISE TOURISM CENTRE AT KIDDERPORE**

GENERAL NOTES:  
 ALL DIMENSIONS ARE IN MILLIMETERS U.N.O. THE DRAWING SHALL BE READ, NOT SCALED EITHER IN PART OR IN FULL U.N.O. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, STRUCTURAL AND ALL SERVICES DRAWINGS. ANY DISCREPANCY SHOULD IMMEDIATELY BE BROUGHT TO THE NOTICE OF THE CONSULTANTS BEFORE EXECUTION.

CONSULTANT: MEP AND FIRE  
  
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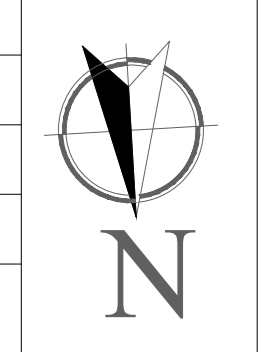
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CLIENT:  
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 CIVIL ENGINEERING DEPARTMENT,  
 15, STRAND ROAD, KOLKATA-700001

NO.	DATE	ITEM

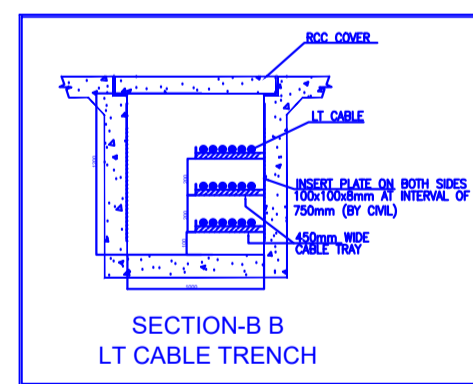
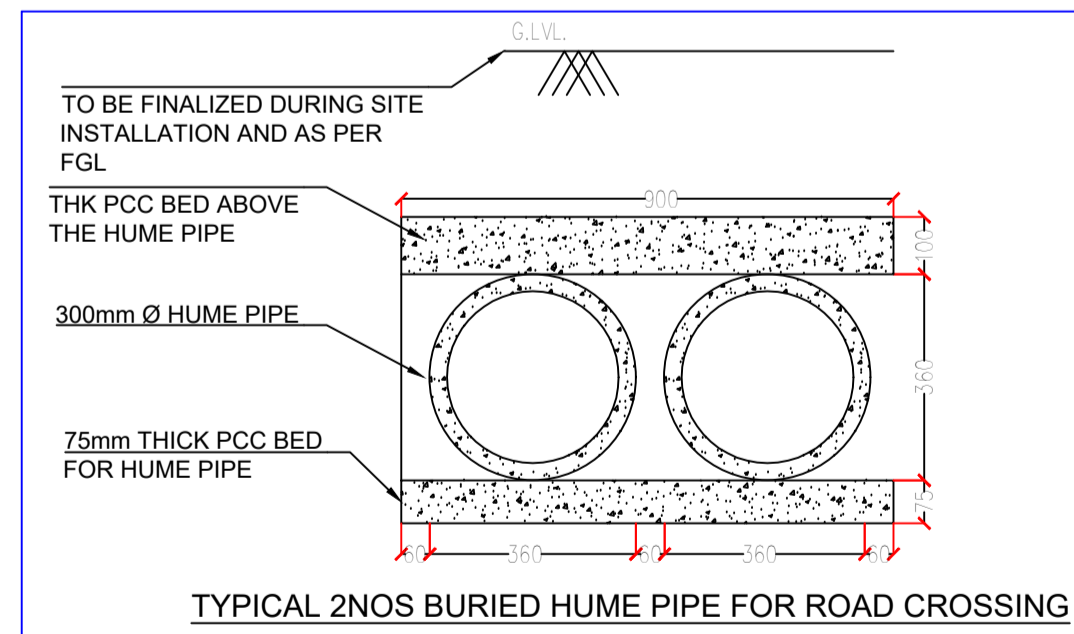
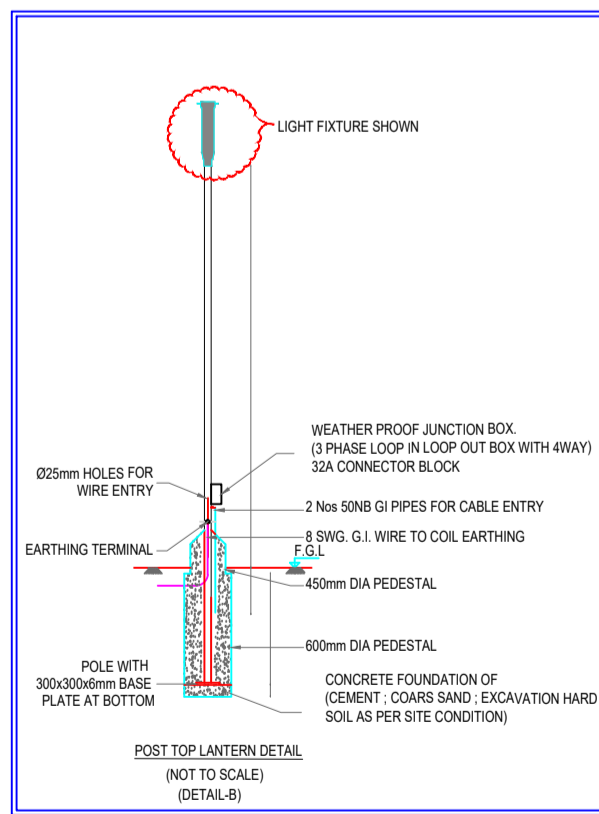
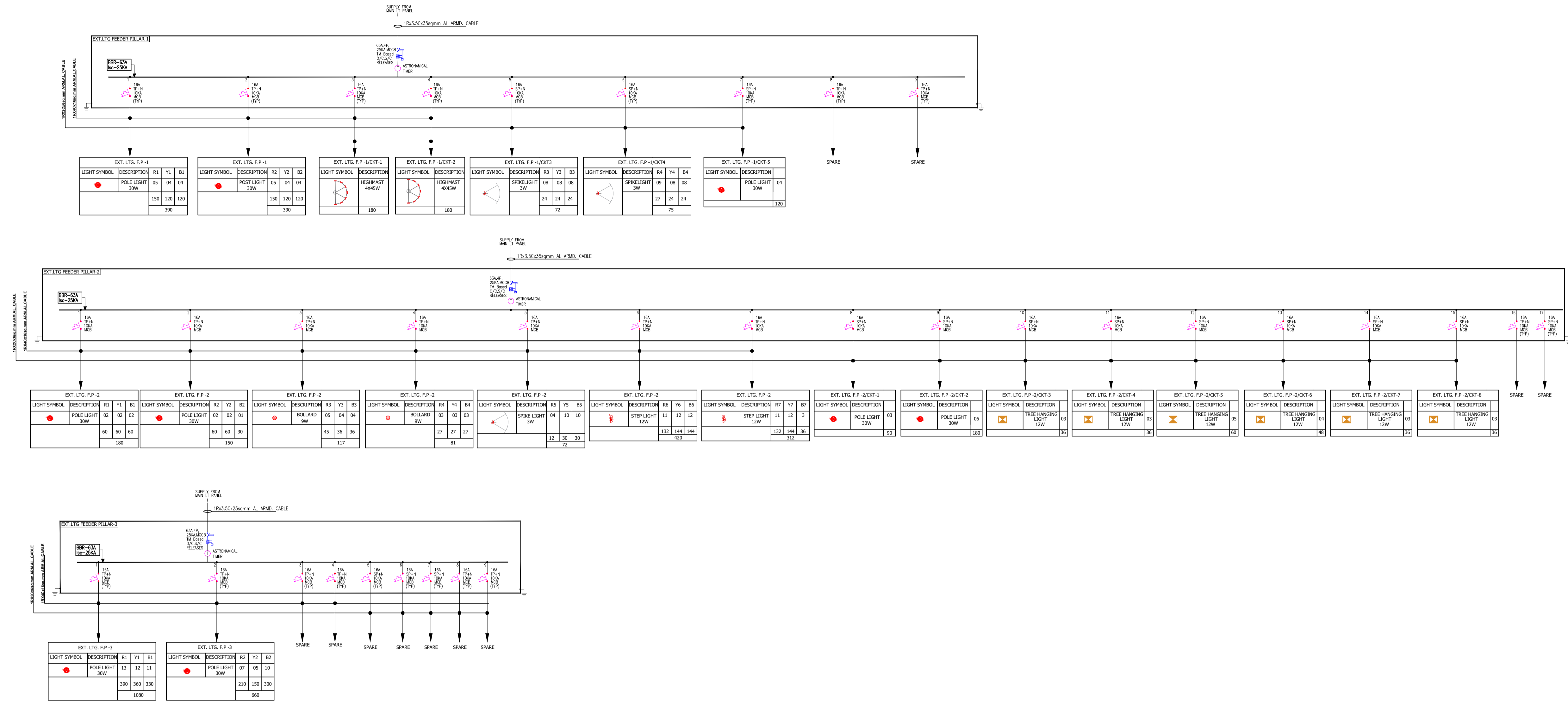
TITLE:  
**ELECTRICAL EXTERNAL LIGHTING LAYOUT (SHEET-01)**

SCALE:	NTS
DATE:	04.03.2023
DRAWN BY:	BD
CHECKED BY:	AP
DWG. NO.:	KOPT / ELEC / SITE / 01
REV:	RO



TENDER DRAWING: COPYRIGHT:

KEY PLAN:



PROJECT:

RIVERFRONT CRUISE TOURISM CENTRE AT KIDDERPORE

GENERAL NOTES:

ALL DIMENSIONS ARE IN MILLIMETERS U.N.O. THE DRAWING SHALL BE READ, NOT SCALED EITHER IN PART OR IN FULL U.N.O. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, STRUCTURAL AND ALL SERVICES DRAWINGS. ANY DISCREPANCY SHOULD IMMEDIATELY BE BROUGHT TO THE NOTICE OF THE CONSULTANTS BEFORE EXECUTION.

CONSULTANT: MEP AND FIRE



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CONSULTANT: ARCHITECTURE, LANDSCAPE AND INTERIOR

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www.salientdesignstudio.com

CLIENT:

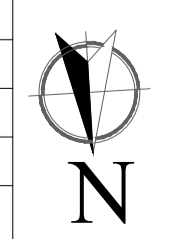
SYAMA PRASAD MOOKERJEE PORT TRUST  
CIVIL ENGINEERING DEPARTMENT,  
15, STRAND ROAD, KOLKATA-700001

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NO.	DATE	ITEM
REVISIONS		

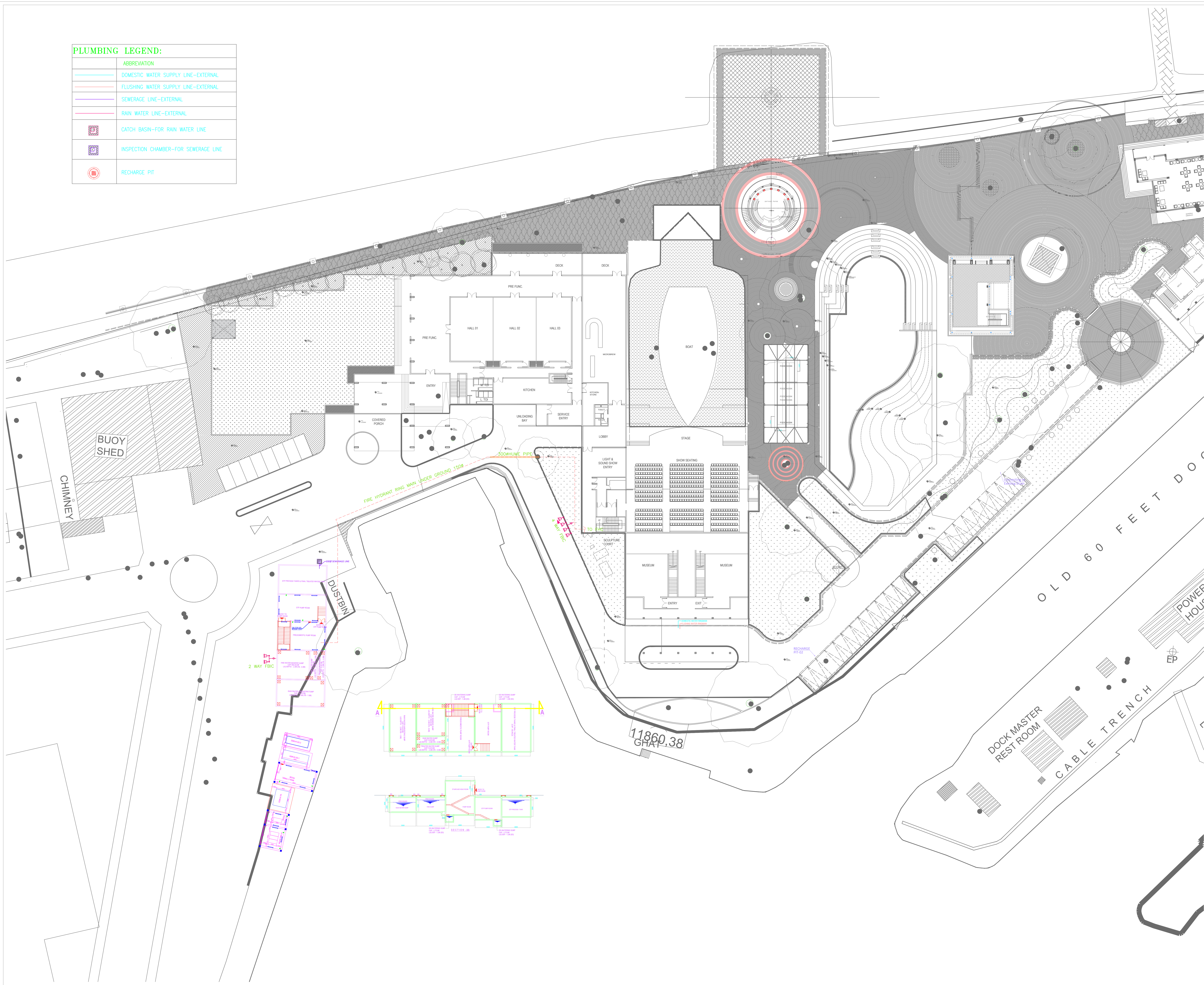
TITLE:  
ELECTRICAL EXTERNAL LIGHTING LAYOUT (SHEET-02)

SCALE:	NTS
DATE:	04.03.2023
DRAWN BY:	BD
CHECKED BY:	AP
DWG. NO.:	KOPT / ELEC / SITE / 02
REV:	R0

TENDER DRAWING:



PLUMBING LEGEND:	
ABBREVIATION	
	DOMESTIC WATER SUPPLY LINE-EXTERNAL
	FLUSHING WATER SUPPLY LINE-EXTERNAL
	SEWERAGE LINE-EXTERNAL
	RAIN WATER LINE-EXTERNAL
	CATCH BASIN-FOR RAIN WATER LINE
	INSPECTION CHAMBER-FOR SEWERAGE LINE
	RECHARGE PIT



KEY PLAN:

LEGEND:

PROJECT:

**KOLKATA PORT TRUST  
REVITALIZATION**

GENERAL NOTES:

CONSULTANT: MEP AND FIRE



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www.salientdesignstudio.com

CLIENT:

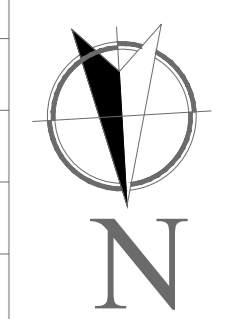
**KOLKATA PORT TRUST**  
CIVIL ENGINEERING DEPARTMENT.  
15, STRAND ROAD, KOLKATA-700001

NO.	DATE	ITEM

REVISIONS

TITLE: **FIRE PROTECTION LAYOUT**

SCALE:	1:250
DATE:	19.12.2022
DRAWN BY:	RD
CHECKED BY:	AP
DWG. NO:	KOPT/FP/SITE/01
REV:	RD



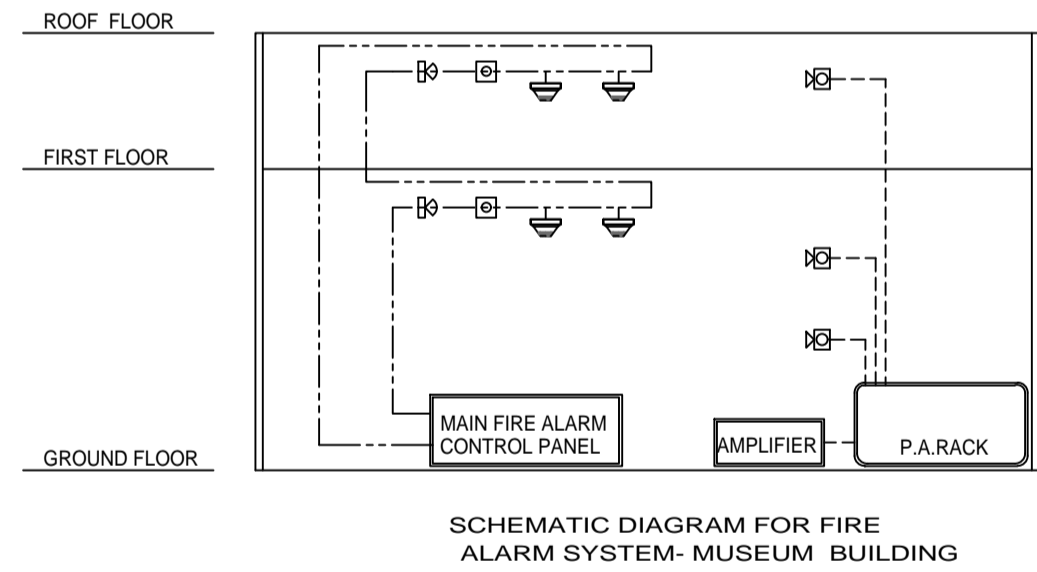
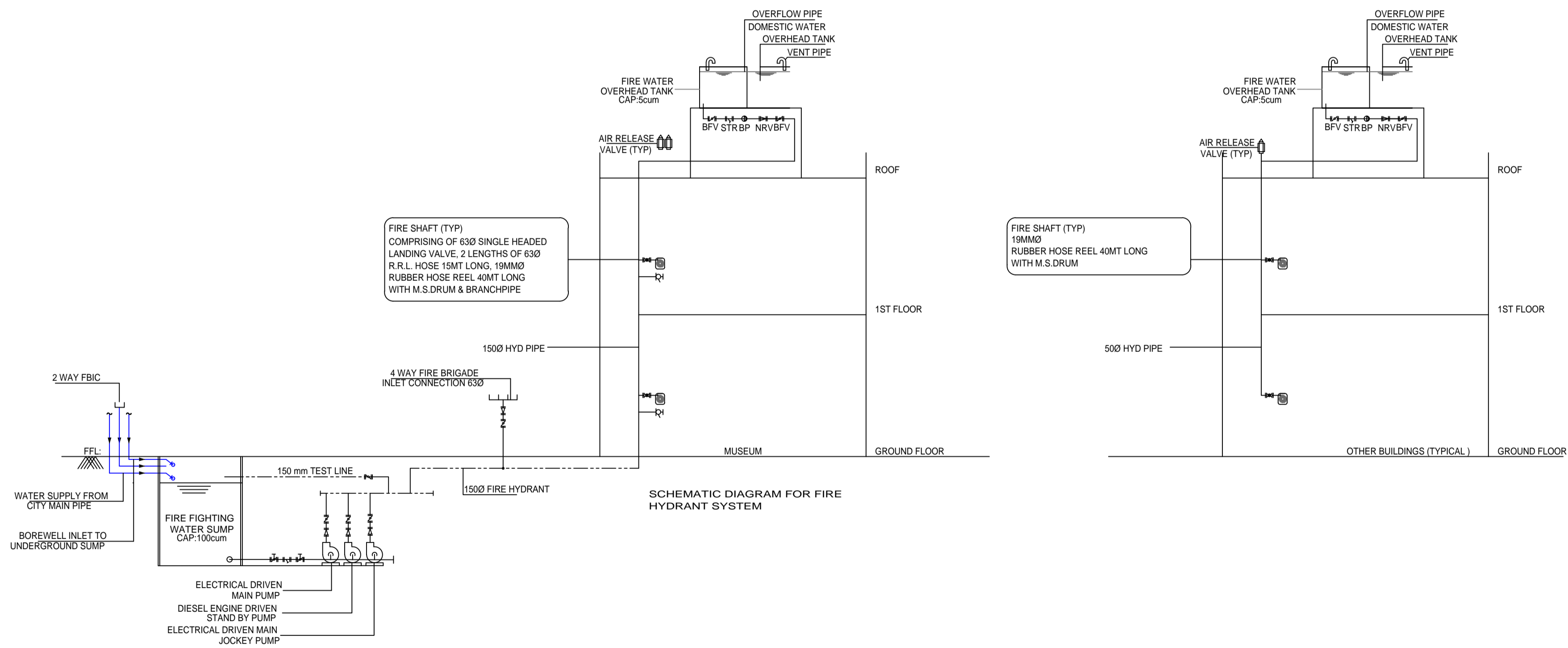
TENDER DRAWING:



SCHEDULE OF PUMPS			
SL.NO.	DESCRIPTION	No. & TYPE OF PUMPS	DUTY
1.	BASEMENT LVL.	1 No. ELECTRICAL DRIVEN PUMP AT PUMP ROOM LVL	2280 LPM AT 56M HEAD
		1 No. DIESEL ENGINE DRIVEN PUMP (STANDBY FOR HYDRANT SYSTEM AT PUMP ROOM LVL	2280 LPM AT 56M HEAD
		1 No. ELECTRICAL DRIVEN JOCKEY PUMP AT PUMP ROOM LVL	180 LPM AT 56M HEAD
2.	LOWER TERRACE LVL	1 No. ELECTRICAL DRIVEN MAIN PUMP FOR WATER CURTAIN SYSTEM AT EACH TERRACE	450LPM AT 35M HEAD

LEGEND	
SYMBOL	DESCRIPTION
	MANUAL CALL POINT
	HOOTER CUM STROBE
	WALL MOUNTED SPEAKER
	FIRE HOSE CABINET WITH HOSE REEL
	NON RETURN VALVE (NRV)
	BUTTERFLY VALVE (BFV)
	FLOW SWITCH
	GATE VALVE
	K-23 TYPE WATER CURTAIN NOZZLE
	BOOSTER PUMP
	SMOKE DETECTOR
	TWO WAY FBIC
	4 WAY FBIC
	ISOLATION VALVE

SCHEDULE OF WATER STORAGE		
SL.NO.	DESCRIPTION	FIRE WATER TANK CAP. IN CUM.
1.	UG SUMP BASEMENT LVL. FOR MUSEUM	100Cum.
2.	OHT ALL TERRACE	5 CUM AT EACH TERRACE



KEY PLAN:

LEGEND:

PROJECT:

**KOLKATA PORT TRUST REVITALIZATION**

GENERAL NOTES:

CONSULTANT: MEP AND FIRE



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CLIENT:

**KOLKATA PORT TRUST**  
CIVIL ENGINEERING DEPARTMENT,  
15, STRAND ROAD, KOLKATA-700001

NO.	DATE	ITEM

TITLE: **FIRE SCHEMATIC LAYOUT**

SCALE :	1:250
DATE :	19.12.2022
DRAWN BY :	RD
CHECKED BY :	AP
DWG. NO. :	KOPT/FP/SCHEMATIC01
REV. :	RD



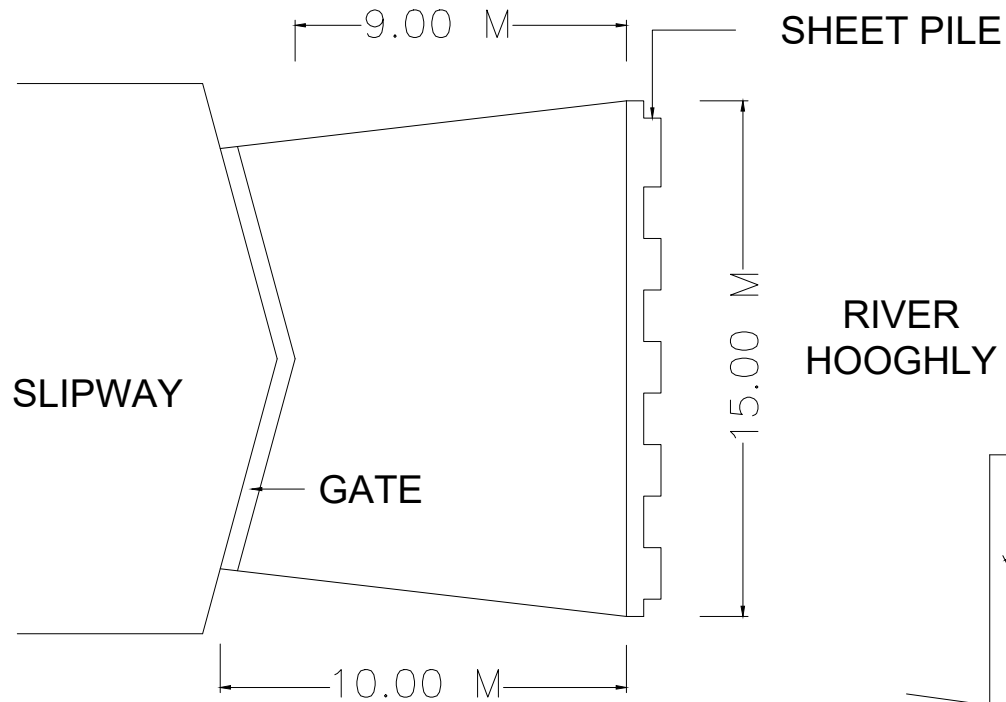
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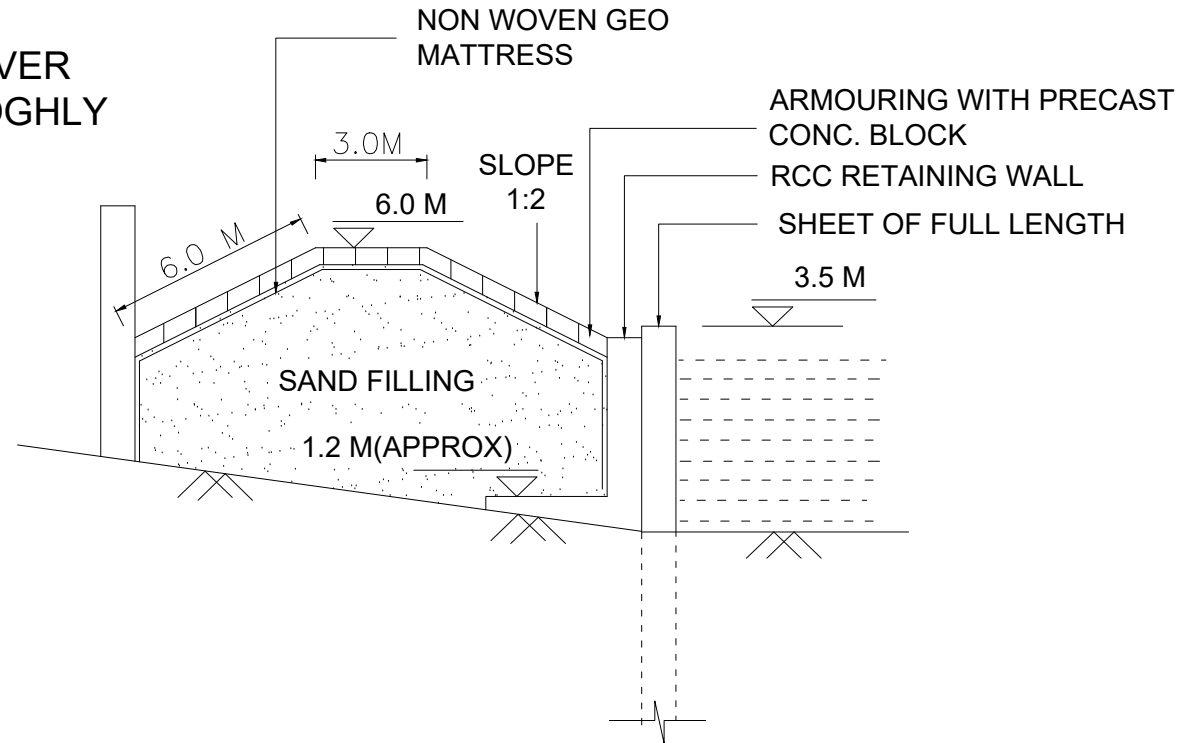








RIVER  
HOOGHLY



SCHEME FOR CLOSURE OF DRY DOCK GATE BESIDE KPD INDENTURE MEMORIAL

SCHEME FOR CLOSURE OF DRY DOCK GATE BESIDE KPD INDENTURE MEMORIAL

SYAMA PRASAD MOOKERJEE PORT, KOLKATA

CIVIL ENGINEERING DEPARTMENT