#### SYAMA PRASAD MOOKERJEE PORT, KOLKATA

### Formerly KOLKATA PORT TRUST

### HALDIA DOCK COMPLEX

E-Tender No. SDM(P&E)/T/ 86 /2020-2021

FOR

Design, Supply, Installation, Testing and Commissioning of 25 Nos. 30 Mtrs. high Hot Dip Galvanized High Mast Tower with LED fitting and replacement of LED luminaires on 40 Nos. existing 30 Mtrs. High Mast along with Comprehensive Maintenance Contract

of 5 years at Haldia Dock Complex, SMP, Kolkata (Phase-II).

# ADDENDUM - II

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 4]

# NOTE :

- 1. This "Addendum-II" should be read in conjunction with Bidding Document (including Notice Inviting e-Tender).
- 2. Consequential changes, arising out of this Addendum-II, will be deemed to have been effected, even if the same were not incorporated specifically in the Bidding Document.
- 3. All other terms and conditions of the Bidding Document (including Notice Inviting e-Tender) will remain unchanged.

# <u>Addendum –II</u>

# E-Tender No. SDM(P&E)/T/ 86 /2020-2021

SI. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
1.	73	7	Both luminaries and driver should have separate BIS nos. with valid register no. as per BIS norms and shall submit during drawing approval. Driver should have the BIS of the OEM.	Both luminaries and driver should have separate BIS nos. with valid register no. as per BIS norms and shall submit during drawing approval. Driver should have the BIS of the OEM or <b>Driver manufacturer</b> .
2.	73	7	Driver:-Drivers should have in-built protection against high voltage surge >10kVp, open circuit & short circuit.	Driver:-Drivers should have in-built protection against high voltage surge > <u>4kVp</u> , open circuit & short circuit and > <u>10kVp external SPD shall be provided</u> .
3.	75	9.1	Lightning protection system down conductor shall not be connected to other earthing conductors above ground level. Also, no intermediate earthing connection shall be made to the lightning arrestor which shall be directly connected to the electrode.	Stands deleted.
4.	38	3.0 x)	Design ambient temperature shall be 50 Deg C & final operating temperature under continuous operation in enclosure limited to 90 Deg C by thermometer method.	Temperature rise of various parts of the switchgear shall be as per IEC 62271-1:2017.
5.	90			Exclusions:- C. Cable fault location testing is excluded from bidders scope.
6.	89			xxvii. All spares, tools, tackle and Control panel required for maintenance of 07Nos. relocated existing High Mast towers during Non-Comprehensive Maintenance period or Comprehensive Maintenance period will be provided by

7.       83       14       List of Approved makes       List of Pr         Bidders       [High Main Station, structure]       Station, structure]       Station, structure]         Commerce       After plated       After plated       Station for the statege of the stat	
7.       83       14       List of Approved makes       List of Pr         Bidders       [High_Masstation, structure]       Station, structure]         Commerce       it would         adhere t       tender.         After pla       required         stage of t       Stage of t	, Kolkata store on free of cost basis.
Bidders ( [High Massation, structure Commerce it would adhere to tender. After pla required stage of to	eferred makes
Any new the tends same med a) Sh b) Sh m c) Sh pe Ga ec d) Sr	shall submit makers list for all major items ast, LED Luminaire, Package outdoor Sub- Cables, VCB Panel, Jointing kits, Gl pipes, e, Cement etc.] during submission of Techno- cial bid. In case bidders fails to submit the list, be presumed that the bidder would strictly to the preferred makes as indicated in the accement of LOA, successful bidder shall be to comply the following during engineering the project:- make, other than preferred make mentioned in er, may be accepted by the engineer, if the ets the following criteria:- all meet technical specification of the tender. all be from OEM [original equipment anufacturer]. all submit at least 3Nos. Work order and erformance certificate from Central Govt./ State ovt./ PSU/other reputed organisation for offered puipment. all have valid type test certificates for the fored equipment from CPPL (FPDA (FPTL) (Cov

SI. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
				<ul> <li>Labs.</li> <li>e) In case of LED luminaire, a site demonstration as per offered illumination design, by installation of LED luminaire, on existing high mast may be carried out at HDC site (based on discretion of the engineer), prior to according approval of drgs. at contractors own risk, cost and arrangement.</li> <li>In case, the new make offered by the bidder does not meets above mentioned criteria, the bidder should be required to adhere to the preferred make list of the tender.</li> </ul>
8.	7	3.11	ii) Closing date & time of submission of e-Tender at https://kopt.enivida.in 06.08.2021 up to 15:00 Hrs. (IST).	<ul><li>ii) Closing date &amp; time of submission of e-Tender at https://kopt.enivida.in 17.08.2021 up to 15:00 Hrs. (IST).</li></ul>
9.	7	3.11	iii) Date & time of opening of Part-I (Techno-commercial Bid) 06.08.2021 up to 15:30 Hrs. (IST) onwards.	iii) Date & time of opening of Part-I (Techno- commercial Bid) 17.08.2021 up to 15:30 Hrs. (IST) onwards.

### SYAMA PRASAD MOOKERJEE PORT, KOLKATA

### (Formerly Kolkata Port Trust)

### HALDIA DOCK COMPLEX

### QUERIES OF DIFFERENT FIRMS IN CONNECTION WITH THE PRE-BID MEETING HELD ON 22.07.2021.

for

"Design, Supply, Installation, Testing and Commissioning of 25 Nos. 30 Mtrs. high Hot Dip Galvanized High Mast Tower with LED fitting and replacement of LED luminaires on 40 Nos. existing 30 Mtrs. High Mast along with Comprehensive Maintenance Contract of 5 years at Haldia Dock Complex, SMP, Kolkata (Phase-II)"

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
1.	SECTION - VI TECHNICAL SPECIFICATION 2.0 SCOPE OF WORK A) Design Scope:- Criteria Page 32/189	Is the 10lux average area within the 25lux illumination area (i.e. within 60m radius area) or it is different area? if it is different area, kindly provide the layout drawing for designing.	Refer Page No.32, clause No.2.0 A) criteria.
2.	SECTION - VI TECHNICAL SPECIFICATION 2.0 SCOPE OF WORK A) Design Scope:- Criteria Page 32/189	Typical Lighting calculation to be worked out with single high mast to achieve minimum 25 lux at a radius of 60 mtrs. Or the lighting calculation to be worked out taking the light contribution of nearby high mast also. Please confirm.	Typical Lighting calculation is to be worked out with single high mast as per scope of work and design criteria.
3.	SECTION - VI TECHNICAL SPECIFICATION 2.0 SCOPE OF WORK A) Design Scope:- Criteria Page 32/189	We propose to conduct Demonstration of lux level at site as per desired illumination level. This can be conducted after technical bid opening i.e. during technical scrutiny stage.	Tender condition prevails. However, Demonstration of lux level at site is required prior to approval of drawing during detail engineering by successful bidder[As per discretion of the engineer].
4.	Clause no. 7.0 - LED Luminaires Page 73/189	Driver is a separate entity & BIS for the driver should be done by driver manufacturer only. We request to please modify the sentence in the tender as described above.	Please see addendum.

### E-Tender No. SDM(P&E)/T/ 86 /2020-2021

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
5.	Clause no. 7.0 - LED Luminaires. Page 73/189	Driver shall have 4kV internal surge protection. 10kV external SPD shall be provided.	Please see addendum.
6.	Tech details of Existed HM tower. Page 82/189.	If the existed power tool is External (common) power tool, then HDC is looking for Integral power tool ? Pls. reply.	New as well as Existing High mast shall be offered with integral power tool.
		If yes, then how forward/Reverse operation of motor will be carried out? In case of external power tool, there is no raise/lower control in the feeder pillar.	For new high mast, normal operation of High mast would be done through Outdoor feeder pillar with intelligent smart lighting control system at the base of the mast.
			For existing High Mast, 02Nos. portable Control panel and pendent switch, would be required for raising and lowering operation of High Mast as mentioned in page no.70 of 189.
7.	List of approved makes Page 85/189.	Siemens/Schneider/ABB makes are mentioned. We request to please incorporate OEM's authorised system Integrator/franchisee for the sub-station and VCB panel. OEM make as mentioned here generally do not deal in small volume jobs.	Tender condition prevails.
8.	DATA SHEET FOR NEW 30Mtrs. HIGH MAST TOWER Page 71/189	We would like to inform that minimum 120 micron galvanisation thickness on HT steel plate thickness of 4/5/8mm is very difficult. If more galvanisation thickness adheres on the plate, the material starts to get peel-off soon. Instead of this, we recommend to mention Minimum 86 micron OR Average 100 micron galvanisation thickness. We request to please amend the requirement accordingly.	Tender condition prevails.
9.	BIDDING FORM-VI, PRICE SCHEDULE Page 154/189	HM accessories (winch, power tool, wire rope, trailing cable etc.) for 7 nos. HM which are to be dismantled and re-erected is not covered in the scope. Please check and confirm.	Item No. 1(iii), Part A of BIDDING FORM-VI states "Dismantling, Transportation, re- installation, Testing and Commissioning of existing 30Mtrs. High Mast Towers".
			Above item includes Dismantling, Transportation, re-installation of High Mast, with all accessories required for

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
			commissioning of High Mast.
10.	BIDDING FORM-VI, PRICE SCHEDULE, Page 157/189	LT/HT grade cable is to be laid by 150NB GI pipe through boring. Please clarify which type of boring is this?	Bidder may deploy HDD or Manual boring based on site requirement.
11.	9.1 Earthing & Lightning Protection	Please clarify is there requirement of down conductor for HM system. If it is required, what will be the size of cable?	Please see addendum.
	Page 75/189	Lightening finial (LF) is provided on top of the head frame and mast sections itself acts as a continuous structure. It grounds the lightening surges to the earthing pit, when it strikes on the LF.	
12.	General Requirement Page 36/189	<u>VCB Panel:-</u> The controls, indicating lamps, relays and meters shall be mounted on LV compartment of the same panel. Separate C&R panel not envisaged.	All controls, indicating lamps, relays and meters shall be mounted on LV compartment of the HT panel. Separate C&R panel not required.
	General Requirement Page 38/189	VCB Panel:- All circuit breaker truck shall have service, test and draw-out positions. Test positions shall engage only the auxiliary contacts to close the CB during testing. Circuit breaker shall have two distinct positions Viz. Service and TEST.	Circuit breaker truck shall have service, test and draw-out positions/Isolate position. In panel, Circuit breaker shall have two distinct positions viz. Service and Test.
	General Requirement Page 36/189	VCB Panel:- Manual operation shall be at a height not less than 450 mm and shall not exceed 1850 mm from the finished floor level. Total Height of Panels shall be 2500/2600 mm max. Shall be confirmed during detailed engineering	Tender condition prevails. However, total Height of Panels shall not be more than 2500/2600 mm.
	General Requirement Page 36/189	VCB Panel:- "It shall be possible to switch on the earthing switch only when the truck is in the isolated position, wherever an integral earth switch is provided". Non Fault Making Earthing Truck shall be provided instead of earthing switch.	Non Fault Making Earthing Truck is also acceptable.

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
	Busbar & Connections Page 38/189	VCB Panel:- Design ambient temperature shall be 50 Deg C & final operating temperature under continuous operation in enclosure limited to 90 Deg C by thermometer method.	Please see addendum.
		Temperature rise of various parts of the switchgear shall be within limits as per IEC 62271-1:2017 for silver plated joints of the bus bars.	
	Busbar & Connections Page 38/189	VCB Panel:- Phase identification by colour in each panel. We shall provide R,Y,B colour coded stickers on bus bars at regular interval for easy phase identification. However, we do not envisage colour coding of the bus bars.	Copper Bus bar with Heat shrinkable type sleeves and R,Y,B colour coded stickers on bus bars is acceptable.
	Internal control Wiring Page 38/189	VCB Panel:- Control wiring shall be 2.5 Sq mm for CT circuits & 1.5 Sqmm for other circuits & shall be FRLS type	Tender condition prevails.
	External Terminations Page 38/189	<u>VCB Panel:-</u> We shall provide 10% spare terminal blocks depending upon the availability of space in the metering compartment during detailed engineering. During detail engineering we shall confirm the exact clearances. Distance between 2 rows of terminal block shall be as per our standard practice.	Tender condition prevails.
	Potential Transformer Page 40/189	VCB Panel:- "High voltage side of PTs shall have fuses and MCCB's on low voltage side" On LV side, MCB shall be provided.	LV side MCB is acceptable.
	Annunciator Page 41/189	VCB Panel:- 20 % spare facia shall be provided based on the space availability & decided during detailed engineering	Tender condition prevails.
	Earthing Devices Page 42/189	VCB Panel:- Separate Non-Fault Making Earthing trucks - Cable Side & Bus Side shall be provided instead of integral Earth Switch.	Non-Fault Making Earthing trucks for Cable Side & Bus Side earthing is acceptable.

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
	Protective Earthing Page 43/189	VCB Panel:- Earth Busbar of Copper having cross section 30X8 mm shall be provided throughout the panel length	Tender condition prevails.
	Construction Features - Mechanical Design Page 43/189	VCB Panel:- Panels are made of Aluzinc material, which is corrosion proof. Aluzinc sheet thickness shall be 2.0 mm. However, front doors and end covers are made of CRCA sheet thickness 2 mm with special re-enforcement. The design has been type tested for full short circuit rating for internal arc resistance.	Design offered shall be fully type tested for full short circuit rating and internal arc resistance tested. Based on type tested design, Aluzinc sheet thickness of 2.0 mm can be accepted.
	Construction Features - Mechanical Design Page 45/189	VCB Panel:- Degree of Protection shall be IP 4X.	Tender condition prevails.
	Painting General	<b>VCB Panel:-</b> We shall have offer panels made up of special material called "Alu Zinc". Alu Zinc is light in weight, has more strength, and extremely corrosion resistant compared to normal CRCA sheets and this does not require any surface treatment like powder coating. Panels shall be made up of Alu Zinc material except front doors & end covers which shall be painted sheet steel. We shall provide powder coated paint only for front doors and end covers, which shall be made of CRCA sheet. However, painting procedure and thickness shall be as per our standard procedure.	Design offered shall be fully type tested for full short circuit rating and internal arc resistance tested. Alu Zinc material is acceptable.
	Incoming Feeder with PT Page 44/189	VCB Panel:- "Incoming cable entry box shall be provided for the required cable entry". Cable termination from bottom & rear shall be in cable compartment. Cable termination kits, glands, lugs etc. shall not be in our scope. Separate Cable Box is not envisaged.	Additional cable box, if required, is in the scope of the bidder.
	Pt x) Page 45/189	VCB Panel:- Bus bar support insulator. Its not envisaged.	Design offered shall be fully type tested for full short circuit rating. Type tested self-supporting bus bar is also acceptable.

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
	Pt m) Page 47/189	VCB Panel:- TVM shall be of Non - ABT type.	Non - ABT type TVM is acceptable.
13.	Outdoor Package Substation Page 48/189	Outdoor Package Substation:- The thickness of enclosure shall be 1.5 mm for non-load bearing members & 2mm for load bearing members.	Tender condition prevails.
	HT Panel/RMU - CSS Page 50/189	Outdoor Package Substation:- Self-Powered Relay Ashida / C&S make shall be used in RMU for O/C & E/F protection having Modbus Communication over RS 485 port.	Refer page 48. Self-Powered Relay make- Ashida in RMU for O/C & E/F protection and having Modbus Communication over RS 485 port is acceptable.
	HT Panel/RMU - CSS Page 50/189	Outdoor Package Substation:- Incoming cable in RMU shall be from cable compartment from front & bottom. Separate Cable box is not envisaged	Agreed. Separate Cable box is not required. However, cable box shall be suitable for termination of 2R x 3C x 185sqmm, Aluminium, armoured UG cable.
	Transformer Page 51/189	Outdoor Package Substation:- The winding insulation class shall be H & temperature rise shall be 115 Deg above ambient.	Tender condition prevails
	Incomer LT Panel Page 52/189	Outdoor Package Substation:- MFM shall be provided for incomer. There is space constraint for O/G. Hence, shall not be provided.	Tender condition prevails
	150 kVAR APFC Capacitor Panel Page 53/189	Outdoor Package Substation:- "Relay shall be suitable for operation at low load and current sensitivity shall be equivalent to 1%". Minimum Load % required for relay operation shall be confirmed during detailed engineering.	Tender condition prevails
	Cable Termination Page 56/189	Outdoor Package Substation:- Please provide the number of cable termination along with the cable sizes to check suitability / provision.	Cable box and terminal shall be suitable for termination of 2R x 3C x 185sqmm, Aluminium, armoured UG cable.
	Labels Page 60/189	Outdoor Package Substation:- Labels & Name plate shall be as per vendor standard practice.	Tender condition prevails

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
	Test At Manufacturer Works Page 60/189	Outdoor Package Substation:- Routine Test shall be conducted in factory as per QAP. Type test Certificates shall be submitted for review. Vendor shall not repeat any type test even at extra cost.	Agreed.
		<b><u>Outdoor Package Substation</u>:-</b> We request to please provide detailed BOQ and GA drawing for VCB panel and package sub-station.	Submission of detailed BOQ and GA drawing for VCB panel and Package Sub-station is in the scope of the bidder.
14.		Kindly confirm that, after completion of work, handing over the site, during guarantee period any fault will occurrence in the cable due damaged by other agency will be Port's responsibility. If any issue from manufacturing/quality part then contractor has to responsible to rectify the same.	Refer Page No.90 Exclusions. However, in case of damage by external agency, the contractor shall identify and isolate the faulty system and if required shall offer necessary assistance to restore power supply by temporary means. All necessary
15.		Kindly confirm that, during comprehensive maintenance period i.e. after two years if any fault will occurrence in the cable or any other items due to damage by other agency will be Port's responsibility.	<ul> <li>supply by temporary means. An necessary means, materials and manpower at contractor's cost.</li> <li>Supply and laying of LT/HT cables, including providing jointing, owing to defects developed due to poor manufacturing practice / mis- handling during laying/ improper external protection, during maintenance contract is also in the scope of contractor.</li> <li>Cable fault location testing is excluded from contractor's scope.</li> </ul>
16.		Kindly confirm that, after completion of work, handing over the site, during guarantee period any fault will occurrence in the LED fittings, same will be handed over to contractor by Port for necessary repair/replacement of the fittings. The removing and re- fixing of the fitting from High Mast will be carried out by Port end.	Removing and re- fixing of the fitting work from/on High Mast is in contractor's scope.

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
17.		Kindly confirm that, after completion of work, handing over the site, during guarantee period if Cyclone/Nature Calamity or any other emergency time High Mast carriage with fittings need to be lowering and re-fixing done by Port end.	Refer Page No.89, Point No. XXIV scope of work.
18.		Any damages of the system/items during Cyclone or any other Nature Calamity then contractor should not be responsible for that.	Refer Page No.90 Exclusions.
19.		Routine Operation & Periodic preventive maintenance as per manufacture guideline of each Equipment & System will be done by Port during guarantee period.	Refer Page No.88 Point No.i) and v) scope of work.
20.		Necessary charges towards Internet & Cloud hosting services for management of the Intelligent Smart Lighting Control System/Panel will be paid by Port from the date of handing over the site.	Refer Page No.88 Point No.vii. All charges towards Internet & Cloud hosting services for management of the Intelligent Smart Lighting Control System/Panel in contractors' scope.
21.		Kindly confirm that, Completion of work 18 months instead of 12 months as mentioned in NIT, Clause no. 3.6 due to lengthy-ness of the work.	Tender condition prevails.
22.		Bid validity should be 120 days instead of 180 days as huge price variation particular in steel, aluminum, copper in the market.	Tender condition prevails.
23.		We understood that, the Projected estimate is taken from old project i.e. four years back estimate. Price has gone up almost 50 to 60% increased from estimated cost. Port should revise the estimate for this project.	Bidder to Quote, based on their own assessment.
24.	Page-84 of 189	Luminaires, LED:- kindly include our Brand name "SURYA" in the above tender & allow us to participate in the above tender.	Please see addendum.
25.	Page-85 of 189	High Mast:- kindly include our Brand name "SKIPPER" in the above tender & allow us to participate in the above tender.	Please see addendum.
26.	Page-84 & 85 of 189	High Mast & Luminaires, LED:- kindly include our Brand name "ENERGYGREEN" in the above tender for LED Lights fixture and High Mast Tower or remove the make list.	Please see addendum.

SI. No.	Reference	Queries of the firms	HDC, SMP's Clarifications
27.	Page-84 of 189	Luminaires, LED:-	Please see addendum.
		kindly include our Brand name "WMEL or equivalent" in the	
		above tender.	
28.	Minimum eligibility criteria.	Minimum eligibility criteria: In the minimum eligibility criteria,	Tender condition prevails.
	Page No.2	while defining similar nature of work, credential of HT installation	
		work along with 30m high mast has been asked for, however only	
		30m mast along with HT installation work definitely not allow many	
		bidders to participate and therefore restrict the competition in the	
		tender, we therefore request your good self to consider 25m high	
		mast along with HT installation work as similar nature of	
		work. Additional work experience of 30 Mtr. HM to be provided.	
29.	Page-84 of 189	We would like to request for inclusion of TRANSRAIL brand light	Please see addendum.
		fixture in the approved make list.	
30.	Page-85 of 189	Make of High Mast to be procure from Original High Mast	Please see addendum
		Manufacturer i.e. Bajaj/Valmont/Transrail as per make mentioned	
		in TENDER to maintain the quality.	
31.	Page-6 of 189	We would also like to request to extend the bid submission date up	Please see addendum.
		to 20.08.2021	