

HALDIA DOCK COMPLEX KOLKATA PORT TRUST



ENGINEERING DEPARTMENT INVITE E-TENDER

[Tender No. : SDM(P&E)/T/45/2019-2020]

[E-TENDER No.: KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27]

FOR

SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF OUTDOOR TYPE 1010 KVA DIESEL GENERATOR SET WITH AMF PANEL INCLUDING COMPREHENSIVE MAINTENANCE CONTRACT FOR THE PERIOD OF 5 YEARS AFTER EXPIRY OF 2 YEARS GUARANTEE PERIOD AND SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 31 NOS. INDOOR TYPE HT PANEL OF 3.3 KV, 1250 AMPS, 3 PHASE, 50 HZ, 25 KA VCB FOR 3SEC. FOR LOCK ENTRANCE AT HALDIA DOCK COMPLEX, KOPT.

June – 2019

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KOLKATA PORT TRUST
HALDIA DOCK COMPLEX
SHORT E-TENDER NOTICE

E-TENDER No.: KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27 dated: June 10, 2019

Online e-tenders are invited for the work of “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.

Date of Pre-Bid meeting: 18.06.2019, 11:00 Hrs. onwards.

Closing date & time of online submission of e-tender: 03.07.2019, up to 16:00 Hrs.

For details of tender and any corrigendum / addendum, please visit MSTC's e-portal <http://www.mstcecommerce.com/eprochome/kopt>.

General Manager (Engineering)
Haldia Dock Complex
Kolkata Port Trust

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

KOLKATA PORT TRUST
HALDIA DOCK COMPLEX
NOTICE INVITING E-TENDER

(Tender No. SDM(P&E)/T/45/2019-2020)

E-TENDER No.: KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27 dated: June 10, 2019

E-Tenders, under **single stage two part system** [Part I: **Pre-qualification & Techno-commercial Bid** and Part II: **Price Bid**] are invited on behalf of Haldia Dock Complex (HDC), Kolkata Port Trust (KoPT), from the intending bidders, fulfilling the “**Minimum Eligibility Criteria (MEC)**” and complying with the “**Essential Documents & Other Documents**” for the work of “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”

2.1 MINIMUM ELIGIBILITY CRITERIA (MEC):

- 2.1.1** The average annual financial turnover of the bidder, during the last three (3) years, ending 31st March, 2019, must be at least ₹ 1,32,59,612.40 Auditor’s Report of the bidding firm, certified by Chartered Accountant (CA), for the years 2016-17, 2017-18 and 2018-19, including relevant Audited Balance Sheets and Profit & Loss Accounts, should be made available.

Note: The bidder must upload the scanned copies of Annual Financial Turnover Statement (certified by CA) for the years 2016-17, 2017-18 and 2018-19 along with Balance Sheets and Profit & Loss Accounts.

- 2.1.2** The bidder must have experience of having successfully completed “Similar Works” [defined below] during last seven (7) years, ending last day of month previous to the one in which tenders are invited, and the experience must be either of the following :-

- a) Three similar completed works of contract value not less than ₹ 1,76,79,483.20 each.
- Or
- b) Two similar completed works of contract value not less than ₹ 2,20,99,354.00 each.
- Or
- c) One similar completed work of contract value not less than ₹ 3,53,58,966.40.

The term “*similar works*” means -

“Supply, installation, testing and commissioning of HT Installations at Port Sectors / Central Govt. / State Govt. / PSU / other reputed organisations”.

Note: The bidder must upload the scanned copies of work order(s) for similar works, successful completion certificates (with performance) from clients indicating

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

the date of completion, value of work done, etc..

- 2.1.3** Valid Electrical Contractor's License issued by competent authority of State / Central Govt. in line with The Indian Electricity Rules, 1956.

Note: The bidder must upload scanned copy of valid Electrical Contractor's License.

- 2.1.4** Certificate in support of supply, installation, testing & commissioning of 500 KVA DG set with AMF panel during last 7 years.

Note: The bidder must upload the scanned copy of certificate in support of supply, installation, testing & commissioning of 500 KVA DG set with AMF panel during last 7 years.

2.2 DOCUMENTS TO BE UPLOADED:

2.2.1 ESSENTIAL DOCUMENTS:

- i. Scanned copies of Audited Balance Sheets and Profit & Loss Accounts for the Years 2016-17, 2017-18 and 2018-19.
- ii. Scanned copies of work order(s) for similar works, successful completion certificates (with performance) from clients indicating the date of completion, Value of work done, etc..
- iii. Scanned copy of Power of Attorney.
Note: In case the tender is submitted by the Proprietor of the Firm, Power of Attorney is not required.
- iv. Scanned copy of certificate in support of supply, installation, testing & commissioning of 500 KVA DG set with AMF panel during last 7 years.

2.2.2 OTHER DOCUMENTS:

- i. Goods and Services Tax (GST) Registration Certificate, issued by Government of India.
- ii. Valid **Profession Tax Clearance Certificate (PTCC)** or Up-to-date **Profession Tax payment challan**, if applicable. If this is not applicable, the bidder must submit [upload] a declaration in this regard.
- iii. Certificate for allotment of **Employees' Provident Fund (EPF) Code No.** [**Latest challan** is to be submitted (uploaded)], if applicable. If this is not applicable, the Bidder should submit [upload] a declaration (in the form of Affidavit), in this regard.
- iv. Registration certificate of **Employees' State Insurance (ESI)** authority, if applicable.
If this is not applicable, necessary document(s) [to establish Non-applicability], along with **affidavit, affirmed before a first-class Judicial Magistrate** to that effect, are to be submitted [uploaded]. Moreover, such bidder(s) shall have to submit a declaration, confirming that they will obtain registration certificate of ESI authority, if required, and they will indemnify **Kolkata Port Trust** against all damages & accident occurring to their labourer (including that of sub-

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

contractor's labourers), in connection with the instant contract, in case they become a Successful Bidder.

v. PAN Card, issued by Income Tax Department, Government of India.

vi. **Certificate of MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC)** to get benefit in this regard.

2.3 The bidders are required to submit bid as per the instructions of the instant bidding documents (including Notice Inviting e-Tender). Bid will be considered rejected if any of the essential documents (as mentioned in Clause no. 2.2.1) and Bid Document fee & Earnest Money Deposit, as applicable, is not submitted by the bidder.

2.4 AVAILABILITY OF THE BIDDING DOCUMENTS:

The bidding documents (in full) would be available in the following websites:-

- **<http://www.mstcecommerce.com/eprochome/kopt> of MSTC Ltd.**
- **<http://eprocure.gov.in/epublish/app> of Central Public Procurement Portal.**
- **<http://www.kolkataporttrust.gov.in> of Kolkata Port Trust.**

Corrigenda, Addenda, Queries & Clarifications, if any, would also be available in the aforesaid websites.

2.5 PARTICIPATING IN THE BIDDING PROCESS:

The bidders will have to participate in the *electronic bidding process through the website of MSTC Ltd. (<http://www.mstcecommerce.com/>) only.*

General Manager (Engineering)
Haldia Dock Complex
Kolkata Port Trust

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

SCHEDULE OF TENDER (SOT)

(Tender No. : SDM(P&E)/T/45/2019-2020)

E-TENDER No.: KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27 dated: June 10, 2019

3.1.	Name of work	::	“Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.
3.2.	Tender Inviting Authority	::	General Manager (Engg.) Haldia Dock Complex ; Kolkata Port Trust.
3.3.	Mode of Tender	::	e-Procurement System Online (Part I: Pre-qualification & Techno-commercial Bid and Part II: Price Bid) through http://www.mstcecommerce.com/eprochome/kopt . of MSTC Ltd. <i>No physical tender is acceptable by Haldia Dock Complex, Kolkata Port Trust.</i>
3.4.	Estimated Cost	::	₹ 4,41,98,708.00 (excluding GST).
3.5.	i) Transaction Fee	::	The intending bidders must deposit ₹ 17,700.00 (Indian Rupees Seventeen thousand Seven hundred) only [Including GST @18%] as “ Transaction Fee ” (non-refundable), in favour of MSTC LIMITED by NEFT or Online Payment . The intending bidders will be activated for bid submission only after receipt of aforesaid “ Transaction Fee ” by MSTC LIMITED . The intending bidders are advised to remit the “ Transaction Fee ” well in advance before the closing time of the event, so as to give themselves sufficient time to submit the bid.
	ii) Bid Document Fee (Cost of bidding documents)	::	The intending bidders must deposit ₹ 2,950.00 (Indian Rupees: Two thousand nine hundred fifty) only [including GST @ 18%], as Bid Document Fee (non-refundable) , to Haldia Dock Complex, along with their offer. In case the said Bid Document Fee is not deposited by the bidder, the respective bid will be summarily rejected, treating the same as non-

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

			responsive.
	iii) Earnest Money Deposit (EMD)	::	The intending bidders must deposit ₹ 8,83,974.00 (Indian Rupees: Eight lakh eighty-three thousand nine hundred seventy four) only, as Earnest Money , to Haldia Dock Complex, along with their offer. In case the said Earnest Money is not deposited by the bidder, the respective bid will be summarily rejected, treating the same as non-responsive.
			NOTE :: (i) For exemption of Bid Document Fee and EMD to upload the scanned copy of the certificate from MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC) or any empowered Central / State Govt. authority is required in electronic format. (ii) The bidders, who are not registered with MSTC, are advised to get themselves registered with MSTC, at least 72 (seventy-two) hours prior to making payment of Bid Document Fee and Earnest Money. (iii) The bidders are advised to deposit Bid Document Fee and EMD using the <u>Axis Bank Payment Gateway only</u> . No other method of payment of Bid Document Fee shall be accepted.
3.6.	Completion Period	::	09 months.
3.7.	Bid Validity	::	120 days.
3.8.	Security Deposit	::	10 % of the Contract Value excluding GST for completion period in the form of Bank Guarantee.
3.9.	Defect Liability Period	::	24 months.
3.10.	Comprehensive Maintenance Contract (CMC) period	::	5 years, after expiry of 24 months' Defect Liability Period
3.11.	Performance Bank Guarantee	::	(i) 10 % of the Contract Value [excluding GST] during guarantee period of 24 months. (ii) 10 % of CMC value (for 05 years , after expiry of Defect Liability Period) [excluding GST] during CMC period of 05 years.
3.12.	Date, time and venue of Pre-Bid Meeting (off-line).	::	18.06.2018 at 11:00 Hrs (IST). Office of General Manager (Engg.) Jawahar Tower Complex ; P.O.: Haldia Township; Dist.: Purba Medinipur ;

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

			PIN: –721607, West Bengal, India
3.13.	i) Starting date & time of submission of e-Tender at http://www.mstcecommerce.com/eprochome/kopt	::	24.06.2019 from 11:00 Hrs. (IST).
	ii) Closing date & time of submission of e-Tender at http://www.mstcecommerce.com/eprochome/kopt	::	03.07.2019, up to 16:00 Hrs. (IST).
	iii) Date & time of opening of Part-I (Techno-commercial Bid)	::	03.07.2019, 16:30 Hrs. (IST) onwards.
	iv) Date & time of opening of Part-II (Price Bid)	::	Shall be informed separately.
3.14.	Address of the Employer	::	Kolkata Port Trust (KoPT). 15 Strand Road, Kolkata – 700 001, West Bengal, India
3.15.	Address of Engineer	::	General Manager (Engineering) Haldia Dock Complex ; Kolkata Port Trust. Address: Engineering Department, Jawahar Tower Complex ; P.O.: Haldia Township; Dist.: Purba Medinipur ; PIN: –721607, West Bengal, India Telephone no. : + 91-3224-263255 E. mail : aganesan.hdc@nic.in
3.16.	Address of the Engineer's representative	::	Shri A. K. Kar, Sr. Dy. Manager (P&E), Haldia Dock Complex, Operational Administrative Building (1 st floor), Chiranjibpur; P.O: Haldia; Dist.: Purba Medinipur; PIN: 721 604; West Bengal; India. Telephone no. : + 91-3224-252332 Mobile no. : + 91 94340 52489 E. mail : akkar.hdc@nic.in

General Manager (Engineering)
Haldia Dock Complex
Kolkata Port Trust

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

SECTION - IV

INSTRUCTIONS FOR ONLINE BID SUBMISSION

4.1 Introduction:

- 4.1.1** This is an e-procurement event of **HALDIA DOCK COMPLEX**. The e-procurement service provider is **MSTC Ltd.**, 225C, A.J.C. Bose Road, Kolkata-700 020.
- 4.1.2** The intending bidders are requested to go through the “**Instructions To Bidders (ITB)**” and contents of this bidding document, including all terms & conditions and Technical Specifications before submitting online tender. Bidders who do not comply with the requirements / conditions, with documentary proof (wherever required), will not qualify in the tender, for opening of Price Bid.
- 4.1.3** **SPECIAL NOTE:**
THE PRE-QUALIFICATION & TECHNO-COMMERCIAL BID AND PRICE BID SHALL HAVE TO BE SUBMITTED ON-LINE AT www.mstcecommerce.com/ eprochome/kopt only.
- 4.1.4** Possession of valid Digital Signature Certificate (DSC) [**Class III Signing Type**] and Registration of the intending bidder with **MSTC Limited** on the e-Procurement / e-Tender Portal of MSTC are pre-requisites for the instant e-Tendering.
- 4.1.5** The Digital Signature Certificate (DSC) [Class III Signing Type], issued by nCode/eMudra or any Certifying Authority (CA) recognized by Controller of Certifying Authorities (CCA), India, should be registered. Only the DSC that is registered should be used by the bidder and the bidder should ensure safety of the same.
- 4.1.6** The intending bidders are requested to read the vendor guide and see the video in the webpage www.mstcecommerce.com/eprochome to familiarize themselves with the system before bidding.
- 4.1.7** The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website www.mstcecommerce.com/eprochome/ of **MSTC Limited**.
- 4.1.8** All entries in the tender should be entered in online Technical & Commercial formats, without any ambiguity.
- 4.1.9** The e-Tender platform shall remain open from the pre-announced date & time and for as much duration as mentioned in the Schedule of Tender (SOT).
- 4.1.10** E-tender cannot be accessed after the closing date and time of e-Tender, mentioned in the Schedule of Tender (SoT) of the instant bidding documents.

4.2 Process of e-tender :

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

4.2.1 **Registration:**

The process involves **vendor's registration with MSTC e-procurement portal** which is **free of cost**. Only after registration, the vendor(s) can submit his / their bids electronically. Electronic bidding for submission of Techno-Commercial Bid as well as Price Bid will be done over the internet. The **Vendor should possess Class III Signing type Digital Certificate**. Vendors are to make their own arrangement for bidding from a Personal Computer / Laptop, connected with Internet. **MSTC** is not responsible for making such arrangement. (*Bids will not be recorded without Digital Signature*).

4.2.2 **Steps for Registration:**

- i) Vendors are required to register themselves online with www.mstcecommerce.com → e-Procurement → PSUs / Govt. Departments → Kolkata Port Trust → Register as Vendor → (Filling up required details and creating own user id & password) → Submit.
- ii) Vendors will receive system generated mail(s), confirming their registration, in their e-mail ID(s), which has been provided during filling up the registration form.

4.2.3 **The intending bidders are requested to submit their bids, keeping sufficient time in hand.**

4.2.4 In case of any clarification regarding online submission of bids, the intending bidders are requested to contact HDC / MSTC, well in advance, keeping sufficient time in hand.

Contact person (Haldia Dock Complex):

- (i) Shri A. K. Kar
Designation: Sr. Deputy Manager (P&E)
Mobile No.: + 91 94340 52489
Landline: + 91-3224-252332
E-mail : akkar.hdc@nic.in
- (ii) Shri M. Maji
Designation: Asst Manager (P&E)
Mobile No.: + 91 9800366297
Landline: + 91-3224-252452
E-mail : mmaji.hdc@nic.in

Contact persons (MSTC Ltd.):

- | | |
|---|--|
| 1. Sri Pritam Biswas, AM (ERO)
E-Mail: pbiswas@mstcindia.co.in
Mb. No. +919903248755 | 2. Sri Mayank Jain, AM (ERO)
Email: mhjain@mstcindia.co.in
Mb. No. +919721277969 |
| 3. Sri Vikash Kumar Jaiswal, RM (ERO)
Email: vikash@mstcindia.co.in
Mb. No. +919903042449 | 4. Landline: +913322901004
Google hangout ID- (for text chat)-
mstceproc@gmail.com |

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

4.2.5 **System requirements and other requirements:**

- i) Operating System: Windows 7 or above.
- ii) Internet Browser: IE-7 or above.
- iii) Class-III Signing Type Digital Certificate.
- iv) Latest update JRE 8 (x86 Offline) Software to be downloaded and installed in the system.
- v) To disable “Protected Mode” for DSC (Digital Signature Certificate) to appear in the signer box, the following setting may be applied:

Tools => Internet Options => Security => Disable Protected Mode (if enabled), i.e., remove the tick from the tick box mentioning “Enable Protected Mode”.
- vi) Other settings:

Tools => Internet Options => General => Click on Settings under “Browsing History/Delete Browsing History” => Temporary Internet Files => Activate “Every time I visit the webpage”.
- vii) To enable ALL Active X controls and disable ‘use pop up blocker’ under Tools → Internet Options → Custom Level (Please run IE settings from the webpage www.mstcecommerce.com once).

4.2.6 **Bidding in e-tender:**

- i) The intending bidders need to submit necessary Transaction Fee, to become eligible to bid online in the e-Tender. Transaction Fee is non-refundable.
Bid Document Fee is non-refundable. Earnest Money Deposit will be refunded to the unsuccessful bidders, without any interest, within 2 (two) months from the date of opening of Price Bids or on finalization/acceptance of tender, whichever is earlier. Earnest Money Deposit of the successful bidder will be refunded, without any interest, after submission of Security Deposit by them.
- ii) The bidders must upload all the documents required as per the instant bidding documents (including Notice Inviting e-Tender). Any other document uploaded, which is not required as per the instant bidding documents (including Notice Inviting e-Tender), shall not be considered.
- iii) **Certificate of MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC)** shall have to be submitted (uploaded) to get benefit.
- iv) Unit of Measure (UOM) is indicated in the e-Tender platform. Rate to be quoted should be in Indian Rupees, as per UOM indicated in the e-Tender platform or in the bidding documents.
- v) **Steps for submitting Pre-Qualification & Techno-Commercial Bid and Price Bid :**

The intending bidder(s), who have submitted the required Transaction

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Fee, can only submit their Pre-qualification & Techno-commercial Bid and Price Bid, through Internet, in MSTC website. The steps are given hereunder:

- a) www.mstcecommerce.com → e-Procurement → PSUs/Govt. Departments → Kolkata Port Trust → Login → My Menu → Auction Floor Manager → Live Event → Selection of the Live Event → Techno-commercial Bid
- b) The bidder should allow running JAVA application. This exercise has to be done immediately after opening of Bid Floor. Then the necessary steps, as would appear, would have to be followed. If this application is not run, then the bidder will not be able to save/submit their bid.
- c) After filling the Techno-commercial Bid, the bidder should click on “Save” for recording their Techno-commercial Bid. Once the same is done, the Price Bid link becomes active and the same has to be filled up and then the bidder should click on “Save” to record their Price Bid. Then once both the Techno-commercial Bid and Price Bid have been saved, the bidder can click on the “Final submission” button to register their bid.
- vi) The bidders should quote their offered prices appropriately, only in the aforesaid Price Bid link. Price indicated anywhere else, in any other form or manner, will not be considered for evaluation of Price Bid.
- vii) The Techno-commercial Bid and Price Bid cannot be modified/revised, once the “Final submission” button has been clicked by the bidder.
- viii) After submitting online bid, the bidder cannot access the bid submitted by him/them, once the “Final submission” button has been clicked by the bidder.

4.2.7 Special Note towards Transaction Fee:

The intending bidder shall pay the Transaction Fee using “Transaction Fee Payment” link under “My Menu” in the vendor login. The intending bidder has to select the particular tender from the event dropdown box. The intending bidder shall have the facility of making the payment either through NEFT or Online Payment. On selecting NEFT, the intending bidder shall generate a challan by filling up a form. The intending bidder shall remit the Transaction Fee amount as per the details printed on the challan, without making change in the same. On selecting Online Payment, the intending bidder shall have the provision of making payment using its Credit Card/Debit Card/Net Banking. Once the payment gets credited to MSTC’s designated Bank account, the Transaction Fee shall be auto authorized and the intending bidder shall be receiving a system generated mail.

Transaction Fee is non-refundable.

An intending bidder will not have access to online e-Tender without making payment towards Transaction Fee. In other words, an intending bidder will be activated for bid submission, only after receipt of the Transaction Fee by MSTC Limited.

NOTE: The intending bidders are advised to remit the “Transaction Fee” well in advance before the closing time of the event, so as to give themselves sufficient

time to submit the bid.

4.2.8 Procedure of payment of Earnest Money and Bid Document Fee through Axis Bank Gateway :

- i) The bidder would be able to access the payment gateway from the Vendor login page of the MSTC ecommerce site (www.mstcecommerce.com → e-Procurement → PSU/Govt. depts. → Kolkata Port Trust) under the icon “HDC EMD/Tender Fee Payment”. Clicking this icon will take the bidders to the Axis Bank Gateway.

Alternatively, the bidder can also access the gateway by from Axis Bank Easy Pay website (<https://easypay.axisbank.co.in> → Others → Haldia Dock Complex).

- ii) The bidder will be required to mention the bidder’s ID (the ID used by the bidder for logging in the MSTC website) and Bid ID (E-Tender No. of the tender against which the bidder intends to submit bid) and then click ‘VALIDATE’.
- iii) A webpage will populate, where the bidder will be required to select “Earnest Money” OR “Bid Document Fee”, then indicate his Mobile Number and the CAPTCHA displayed in the webpage.
- iv) Depending on the selection, another webpage will come up.
- v) In case of selection of Earnest Money (EM), the bidder will be required to select the option of With or Without Bank Guarantee. In case of the instant tender, where there is no option to pay the EM through Bank Guarantee (BG), the bidders should select the option ‘Without’.
- vi) The bidder will be required to mention their Bank Account Number, IFSC of their Bank and the name of the account, insert the CAPTCHA mentioned in the webpage and then ‘SUBMIT’. In case of Bid Document Fee payment, Bank Account Number would not be required.

An URN Number will be generated. Bidders should keep note of this URN Number for all future reference.

- vii) Another webpage will come up and the bidder will have the option to select payment methods from – (i) Internet Banking and (ii) NEFT / RTGS, after agreeing with the terms and conditions, by clicking the dialogue box appearing in the webpage.
- viii) In case of selection of Internet Banking, the bidder will be required to select any Bank of their choice and depending on the selection, the bidder will then be guided to the webpage of the respective Bank.

After validating the payment in the respective Bank, the system will return to the Axis Bank Payment Gateway.

- ix) In case of selection of RTGS / NEFT, the webpage will generate a payment advice.

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The Bank Account Number, IFSC of the Bank, name of the payee, i.e., Haldia Dock Complex, and the amount to be paid will be indicated in the said payment advice. The bidder will also get an SMS and e-mail detailing the same.

The bidder will be required to mention the same correctly in the Bank Challan, which is required to be filled up for payment by RTGS / NEFT in the Bank from where they intend to make the payment.

The bidders should note that Bank a/c number of HDC, mentioned in the Payment Advice, will change for each and every transaction and hence, for each and every payment, the entire process from the beginning will have to be followed for generation of a URN Number.

- x) For payment of Bid Document Fee, identical process is to be followed.
- xi) The bidders will be able to know the status of their payment, by using the 'Enquire URN' facility, by mentioning the URN Number in the Axis Bank login page. Until such time the payment is credited to HDC's a/c, the system will show the status as 'Pending'.
- xii) The bidders should note that until such time the status remains 'Pending', the payment is not made to HDC and mere generation of URN Number will not signify payment of EM or Bid Document Fee. Hence, if the status remains 'Pending' after some time of submitting the RTGS / NEFT payment request at their Bank, then the bidders should contact their Bank to enquire about the status of RTGS / NEFT request.
- xiii) In case of any problem relating to use of the payment gateway, the bidders should contact the tender inviting authority, whose phone number and e-mail address are mentioned in the e-Tender.

4.2.9 Special Note towards uploading required documents:

The intending bidders are instructed to use “**Attach Doc**” button to upload documents in document library. Multiple documents can be uploaded.

4.3 Instructions related to Micro & Small Enterprises (MSEs):

- 4.3.1** For exemption of Bid Document Fee and EMD certificate from MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC) or any empowered Central / State Govt. authority is required.
- 4.3.2** **Micro & Small Enterprises (MSEs) registered with NSIC under Single Point Registration Scheme (SPRS) are eligible to get the benefits under new Public Procurement policies for MSEs as notified by the Government of India, Ministry of Micro, Small & Medium Enterprises (MSME) in The Gazette of India vide No. 503, dated 26.03.2012.**

- 4.3.3** When splitting of tender quantity is not possible purely on technical ground,

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Trustees reserve the right not to negotiate price with MSE if their price is within the band of L1+15% in comparison with L1 price of non-MSE for consideration of award of order for 20% of tender quantity against any item as per new public procurement policy.

- 4.3.4** If **Micro & Small Enterprises (MSEs)**, registered with NSIC [under single point registration scheme] intend to participate with respect to items for which they are not registered with NSIC, then they will have to deposit full amount of **Bid Document Fee** and **Earnest Money**, in accordance with the **Schedule of Tender (SoT)**. Otherwise, their offer with respect to such items (for which they are not registered with NSIC) will not be considered.

4.4 Other Instructions related to e-Procurement:

- 4.4.1** All notices and correspondence with the bidder(s) shall be sent by e-mail only during the process till finalization of tender by HDC, KoPT. Hence, the intending bidders are required to ensure that their e-mail IDs provided are valid and updated at the stage of registration of bidders with MSTC (i.e., Service Provider). The intending bidders are also requested to ensure validity of their DSC (Digital Signature Certificate).
- 4.4.2** In all cases, an intending bidder should use their own ID and Password, along with Digital Signature, at the time of submission of their bid. It is mandatory that all bids are submitted with Digital Signature Certificate (DSC), otherwise the same will not be accepted by the system.
- 4.4.3** Addenda, Corrigenda and Queries & Clarifications (with respect to the instant e-Tender), if any, would be hosted in the e-Procurement portal of MSTC.
- Since there is no provision to take out the list of intending bidders downloading the bidding documents from the websites mentioned in the Tender Notice, the intending bidders are requested to check the website of MSTC to ensure that they have not missed any Addenda, Corrigenda and Queries & Clarifications, uploaded against the instant e-Tender, after downloading the bidding documents. The responsibility of downloading such Addenda, Corrigenda and Queries & Clarifications, if any, will be that of the intending bidders.
- 4.4.4** No deviation/variation of the techno-commercial terms and conditions of the bidding documents will be considered by HDC, KoPT. Submission of bid in the e-Tender platform by any bidder confirms their acceptance of the techno-commercial terms and conditions of the bidding documents.
- 4.4.5** HDC, KoPT reserves the right to accept or reject any bid (in full or part) and to annul the bidding process and to reject all bids, at any time prior to contract award, without assigning any reason thereof and without thereby incurring any liability to the bidders.
- 4.4.6** Any order resulting from this open e-Tender shall be governed by the terms and conditions mentioned therein.

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- 4.4.7** All electronic bids submitted during the e-Tender process shall be legally binding on the bidders. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by HDC, KoPT will form a binding contract, between HDC, KoPT and the bidder, for execution of the work. Such successful bidder shall be called hereafter the 'CONTRACTOR'.
- 4.4.8** The bids will be evaluated based on the filled-in Technical & Commercial formats and the requisite documents submitted (uploaded) by the bidders.
- 4.4.9** The documents uploaded by bidder(s) will be scrutinized. During scrutiny, in case any of the information furnished by the bidder is found to be false, Earnest Money Deposit of such defaulting bidder(s) will be forfeited. Punitive action, including suspension and banning of business, can also be taken against such defaulting bidder(s).
- 4.4.10** HDC, KoPT, at its discretion, may extend the closing date & time of e-Tender, prior to the closing date & time of e-Tender mentioned in the Schedule of Tender (SoT). However, the closing date & time of e-Tender will not be extended, under any situation, after the due date is over.
- 4.5 Opening of Part-I (i.e. Pre-qualification & Techno-commercial Bid) and Part-II (i.e. Price Bid) :**
- 4.5.1** **Part I** (Pre-qualification & Techno-commercial Bid) will be opened electronically on specified date and time, as given in the Schedule of Tender (SoT). Bidder(s) can witness electronic opening of bid(s).
- 4.5.2** **Part II** (Price Bid) will be opened electronically of only those bidder(s), who qualify(ies) in the "Pre-qualification & Techno-commercial Bid" [Part I]. Such bidder(s) will be intimated date of opening of Part II (Price Bid), through e-mail, to valid e-mail ID(s) confirmed by them.

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SECTION - V

INSTRUCTIONS TO BIDDERS (ITB)

A. GENERAL

5.1 Definition and interpretations :

- (a) the term “in writing” means communicated in written form (i.e. by mail, e-mail, fax, telex, etc.) and delivered against receipt;
- (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular;
- (c) “day” means calendar day; and
- (d) “procurement” means the entire work requirements, as specified in **Section VI Technical Specification.**

5.2 Fraud and corruption

5.2.1 It is the policy of **Kolkata Port Trust (KoPT)** to require that bidders, Contractors, Sub-contractors, and Consultants, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, **KoPT** :

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “**corrupt practice**” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
 - (ii) “**fraudulent practice**” means a misrepresentation or omission of facts, in order to influence a public procurement process or the execution of a contract;
 - (iii) “**collusive practice**” means a scheme or arrangement between two or more bidders, designed to establish Bid Prices at artificial , non competitive levels;
and
 - (iv) “**coercive practice**” means harming, or threatening to harm, directly or indirectly, persons or their property to influence their participation in procurement process or affect the execution of a contract;
- (b) will reject a proposal for award, if it determines that the bidder, recommended for award, has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question;

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- (c) Will terminate contract, if it determines at any time that representatives of KoPT engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract ;
 - (d) will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, a contract;
- and
- (e) will have the right to require that a provision be included in Bidding Documents and in contracts, requiring bidders, contractors , subcontractors, and consultants to permit KoPT to inspect their accounts and records and other documents relating to the bid submission and contract performance.

5.2.2 Furthermore, bidders shall be aware of the provision stated in GCC.

5.3 Eligible bidders

5.3.1 A Bidder, and all parties constituting the Bidder, **should have the nationality of any country**. A Bidder shall be deemed to have nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of the country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or contractors for any part of the contract, including related services

5.3.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder and one or more parties :

- (a) Submit more than one bid in this bidding process.

Or

- (b) are or have been associated in the past , with a firm or any of its affiliates which have been engaged by **KoPT** to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under the instant Bidding Documents.

5.3.3 Participating by a Bidder in more than one bid shall result in the disqualification of all bids, in which such Bidder is involved.

5.3.4 A Bidder that is under a declaration of ineligibility by **KoPT**, in accordance with **ITB Clause No.5.2**, at the date of contract award shall be disqualified.

5.4 Authority in signing the bid / offer

- 5.4.1** In case the bid is submitted by a **Proprietorship Firm**, the same should be signed either by the **Proprietor** or other person(s), holding a valid **power of attorney / authorisation** from the proprietor, in connection with this bidding process. The signature of such power of attorney holder(s) / authorised person(s) should be attested by the proprietor. Such **power of attorney / authorisation** should be uploaded along with **Techno-commercial Bid [Part I]**.
- 5.4.2** In case the bid is submitted by a **Partnership Firm**, the same should be signed either by the partner(s), holding valid **power of attorney** from the partners or other person(s), holding valid **authorisation** from such power of attorney holder(s), subject to approval of the partner(s) in the matter of giving such authorization, in connection with this bid. The signature of such **power of attorney holder(s) / authorised person(s)** should be attested by the **partners** or **power of attorney holder**, as the case may be. Such **power of attorney / authorisation** should be uploaded along with **Techno-commercial Bid [Part I]**.
- 5.4.3** In case the bid is submitted by a **Limited Company**, the same should be signed by the person(s) holding valid **power of attorney / authorisation**, executed in his / their favour (in connection with this bid) and the signature of such **power of attorney holder(s) / authorised person(s)** should also be attested, in accordance with the constitution of the Limited Company. Such **power of attorney / authorisation** should be uploaded along with **Techno-commercial Bid [Part I]**.
- 5.4.4** Such **power of attorney holder(s) / authorised person(s)** should put his / their signature identical with the attested one, in the relevant documents submitted / uploaded, in connection with the instant bidding process [including “**Techno-commercial Bid**”]. In case of putting different signatures in different documents / offers, all such signatures should be attested by the same person in line with the above.

B. CONTENTS OF BIDDING DOCUMENTS

5.5 Sections of Bidding Documents

- 5.5.1** The contents of the **Bidding Documents** as detailed at “TABLE OF CONTENTS” should be read in conjunction with any addendum / corrigendum issued in accordance with **ITB Clause No. 5.7**.
- 5.5.2** The Employer (KoPT) is not responsible for the completeness or correctness of the bidding documents and their Addenda, if they were not obtained directly from the source indicated in Notice Inviting e-Tender .
- 5.5.3** The bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents [considering all addenda / corrigenda issued] may result in the rejection of the bid.

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5.6 Pre-Bid Meeting

- 5.6.1** A prospective bidder requiring any clarification of the instant Bidding Documents shall contact **Dy. Manager (P&E), HDC**, in writing, or raise their enquiries during the **Pre-bid meeting**.

The **prospective bidders** are requested to submit their queries / observations / suggestions / requests for clarification, in connection with the instant Bidding Documents, in advance, to enable **KoPT** to prepare response / clarifications and make pre-bid meeting meaningful.

- 5.6.2** As indicated in the Schedule Of Tender, pre-bid meeting will be conducted off-line on behalf of HDC, KoPT. The purpose of this pre-bid meeting will be to clarify issues and to answer questions on any matter (in connection with the instant Bidding Documents only) that may be raised at that stage.

Authorised representative(s) of the prospective bidders will be allowed to attend the **Pre-bid meeting**, which will be held on the date, time & at the venue stipulated in the **Schedule Of Tender (SOT)**.

The **designated representative(s)**, who will be deputed to attend the **pre-bid meeting**, should submit their authorization in this regard. The signature of such designated person(s) should be attested by the authorized signatory of the prospective bidders. Otherwise, the designated person should have to submit the proof of his identity through other means.

- 5.6.3** The prospective bidders are advised to attend the pre-bid meeting. However, non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

- 5.6.4** Unless otherwise notified, **all the queries / observations / suggestions / requests for clarification** (related to the instant Bidding Documents only) [including the **queries / observations / suggestions / requests for clarification raised during pre-bid meeting**], received till the date of **pre-bid meeting**, will be considered. **KoPT's** response / clarifications (including description of queries / observations / suggestions / requests for clarifications, but without identifying its source), in this regard, will be communicated to all the known prospective bidders (i.e. who would **attend pre-bid meeting** or **submit queries / observations / suggestions** or **requested for clarification**), in writing, well in advance to the last date of submission of bids. The aforesaid **queries / observations / suggestions / requests for clarification** and **KoPT's** response / clarifications will also be hosted in the websites, as specified in the **Notice Inviting e-Tender**.

Any modification to the Bidding Documents, which may become necessary as a result of the **KoPT's response / clarifications**, so issued, shall be made through the issue of an addendum / corrigendum, pursuant to **ITB**.

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- 5.6.5** The Bidder shall be deemed to have **examined** thoroughly the instant Bidding Documents, in full, [considering all addenda / corrigenda issued (if any)], **visited the site & surroundings** and to have **obtained all necessary information in all the matters** whatsoever that might influence while carrying out the job as per the conditions of the instant **Bidding Documents** [considering all addenda / corrigenda issued (if any)] and to satisfy themselves to sufficiency of their bid, etc. If they shall have any issue to be clarified, the same should be brought to the notice of **KoPT**, in writing, as set out in **ITB**.

The bidders are advised to acquaint themselves with the job involved at the site, like availability of labour, means of transport, communication facilities, laws and bye laws in force from Government of West Bengal & Government of India and other statutory bodies from time to time. The Bidder shall be deemed to have examined and collected all necessary information as to risk, contingencies and other circumstances, which may be necessary for preparing the Bid.

Visiting the site shall be at the bidder's own expense. Failure to visit to site will no way relieve the Contractor (successful Bidder) of any of their obligation in performing the work and liabilities & responsibilities thereof, in accordance of the contract.

- 5.6.6** Necessary Gate Pass/Dock Entry Permit, for entering into the Dock area, will be issued to the designated representative(s) of the prospective bidders, on chargeable basis [as per the extant "Scale of Rates" of KoPT, available at <http://www.kolkataporttrust.gov.in/> of Kolkata Port Trust], to visit the site, for the purpose of inspection only, on receipt of a formal written request. The signature of such designated person(s) should be attested by the authorized signatory of the prospective bidders. Otherwise, the designated person(s) should have to submit proof of his/their identity through other means.

However, during the pre-bid meeting, if the prospective bidders are willing to enter into the dock area, they will be allowed through VIP Pass of HDC free of cost.

Such prospective bidder will be fully responsible for any injury (whether fatal or otherwise) to its designated representative(s), for any loss or damage to property, or for any other loss, damage, costs and expenses whatsoever caused, which, but for the granting of such permission, would not have arisen.

The prospective bidder will be liable to indemnify KoPT against any loss or damage to the property of KoPT or neighbouring property which may be caused due to any act of prospective bidder or their designated representative(s).

5.7 Amendment of Bidding Documents

- 5.7.1** At any time, prior to the last date for submission of bids, **KoPT** may, for any reason whether at its own initiative or in response to the **queries/ observations/suggestions/requests for clarification**, amend and modify

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the bidding documents by issuing Addenda/Corrigenda. Such Addenda/Corrigenda will be hosted in the websites, as specified in the **Notice Inviting e-Tender**.

5.7.2 Any Addendum/Corrigendum, thus issued, shall be part of the bidding documents and shall be communicated, in writing, to all the known prospective bidders (i.e., who would attend Pre-bid Meeting or submit queries / observations / suggestions or request for clarification), in writing, well in advance to the last date of submission of bids.

5.7.3 To give prospective bidders reasonable time to take the Addendum / Corrigendum into account in preparing their bids, KoPT may, at their discretion, extend the last date for submission of the bids, prior to the closing date & time of e-Tendering.

C. PREPARATION OF BIDS

5.8 Cost of bidding

The Bidder shall bear all costs associated with the preparation and submission of their bid, and **KoPT** shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

5.9 Language of Bid

The Bid, as well as all correspondence and documents relating to the bid, exchanged by the Bidder and KoPT, shall be written in the **English language only**. If the supporting documents and printed literature, that are part of the bid, are in another language, they must be accompanied by an accurate translation of the relevant passages in the English language, in which case, for purposes of interpretation of the bid, such translation shall govern.

5.10 Documents comprising the Bid

5.10.1 The Bid shall comprise of the following :-

(a) Pre-qualification and Techno-commercial Bid:

The Pre-qualification & Techno-commercial Bid comprises all documents [including the Bidding Forms (provided in these bidding documents), duly filled in, signed and stamped] required to be submitted as per the Notice Inviting e-Tender, Schedule of Tender (SoT), Instructions To Bidders (ITB) and any other relevant clause(s) of these bidding documents.

(b) Price Bid:

The Price Bid comprises the prices only and the same are to be submitted electronically, through the website of MSTC Limited only.

5.11 Form of Tender

The bidder shall have to submit (upload) the **“FORM OF TENDER”**. This form **must be completed without any alterations** to its format, and no **substitutes shall be accepted**. All blank spaces shall be filled in with the information requested. Such **duly filled in “FORM OF TENDER”** should be uploaded.

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5.12 Price Schedule

- 5.12.1** The Bidder shall quote their price on-line (**through MSTC portal only**) as per the **Price Schedule** (Bill of Quantities) in the Price bid (Part-II), without any condition or deviation. Price indicated anywhere else, in any other form or manner, will not be considered for evaluation of Price Bid.
- 5.12.2** The Bidder should submit (upload) the **unpriced** format [Bidding Form VI : **PRICE SCHEDULE**], of the instant Bidding Documents, duly filled in the GST rates at appropriate places and signed & stamped as token of acceptance.

5.13 Bid Prices

- 5.13.1** The prices are to be quoted by the Bidder **through MSTC portal**, considering the work requirements, as detailed in **Section VI (Technical Specification)** and other terms & conditions of the Bidding Documents (considering all addenda / corrigenda issued).
- 5.13.2** Except where otherwise expressly provided, the contractor shall have to provide all materials, labour, plant and other things necessary in connection with the contract, although everything may not be fully specified, and although there may be errors and omissions in the specifications.
- 5.13.3** The prices and rates entered (electronically through MSTC Portal) **as per the Price Schedule** (Bill of Quantities), in the Price bid (Part-II), by the **Bidder**, shall include, inter alia, all costs and expenses involved in or arising out of the following:
- (a) Supply, delivery, inspection, transportation (including insurance), handling, receipt and storage of all required materials [in line with Technical Specification (Section VI)] and equipment at site.
 - (b) The provision, storage, transport, handling, use, distribution & maintenance of all materials, equipment, machinery and tools, including all costs, charges, dues, demurrage or other outlays involved in transportation.
 - (c) The provisions & maintenance of all their staff & labour and their payment, accommodation, transport, fares and other requirements.
 - (d) All required first aid, welfare and safety requirements.
 - (e) Damage caused to the work and /or construction, plant, materials and consumable stores caused by weather.
- 5.13.4** Tools, Tackles, lifting machineries, scaffolding, temporary lighting, different vehicular transport etc. required for execution of the whole work will have to be arranged by the Contractor, at their own risk, cost & arrangement, which may be considered, while submitting their rates in the offer.

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- 5.13.5** Rates & amounts quoted by the bidders in the “**PRICE SCHEDULE**”, include all incidental charges [excluding Goods and Services Tax (GST)], as applicable, and charges for packing, forwarding, loading, handling, carrying to any lead, stacking, transportation, permits, overheads & profit, etc. necessary for the complete services as described in this Bidding Document.

GST, as applicable, shall be paid extra against proper invoice submitted by the Contractor.

The contractor will be required to submit GST compliant invoice with all required details and also be required to file timely and proper return so as to enable KoPT to get due credit against GST paid.

In case of any failure on the above account, GST amount, even if paid by KoPT, shall be recoverable from the Contractor.

- 5.13.6** All quoted rates will remain firm during the validity period of the bid / offer, including any / all extension thereof, agreed by the bidder.

However, changes in **statutory taxes & duties [other than GST] will be adjusted** (within the scheduled completion period), based on documentary evidence.

- 5.13.7** The Bidder should clearly understand that they shall be strictly required to conform to all terms & conditions of the instant Bidding Documents [considering all addenda / corrigenda (if any) issued], as contained in each of its clauses and **plea of “Customs Prevailing”** will not be, in any case, admitted as excuse on their part, for infringing any of the terms & conditions.

No request for change or variation in rates or terms & conditions of the contract shall be entertained on the ground that the successful Bidder has not understood the work envisaged in the instant contract.

5.14 Currencies of Bid

The **Bidders** should quote the prices in **Indian Rupees (₹)** only.

5.15 Period of validity of bids

- 5.15.1** Bids shall remain valid for the period of **120 days** after the bid submission deadline date (considering extension thereof, if any) as prescribed in **ITB**. A bid, valid for a shorter period, shall be rejected by **KoPT**, treating the same as non-responsive.

- 5.15.2** In exceptional circumstances, prior to the expiration of the bid validity period, **KoPT** may request the bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.

A Bidder may refuse the request, without forfeiting their **Earnest Money Deposit (EMD)**. A Bidder granting the request shall not be required or permitted to modify its bid, except when option to do the same has been

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specifically granted by **KoPT**, in writing.

5.16 Earnest Money Deposit (EMD)

5.16.1 The intending bidders should deposit an amount specified in the **Schedule of Tender (SoT)**, as **Earnest Money Deposit (EMD)**, in accordance with the procedure mentioned therein.

5.16.2 Failing to deposit the Earnest Money, in accordance with ITB, shall be rejected by the Employer (KoPT), treating the same as non-responsive.

For exemption of EMD the bidder is required to upload the scanned copy of the certificate from MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC) or any empowered Central / State Govt. authority.

5.16.3 Refund of Earnest Money Deposit:

Earnest Money Deposit of the successful bidder shall be retained by KoPT and Earnest Money Deposit of the unsuccessful bidders [including the bidder(s) whose Price Bid would not be opened in line with **ITB**] shall be refunded, without interest, within 2 (two) months from the date of opening of Price Bids or on finalization/acceptance of tender, whichever is earlier.

In case the bid of the **successful bidder** is found acceptable to **KoPT** and contract is awarded with them, the **Earnest Money Deposit** of the **successful bidder (Contractor)** shall be retained by **KoPT** till submission of **Performance Guarantee / Security Deposit** (in accordance with **ITB**) and signing of the **Contract Agreement** by **KoPT** and the Contractor (in accordance with **ITB**), and shall be refunded thereafter.

In case, the successful bid is not found acceptable to KoPT, Earnest Money Deposit of the successful bidder shall be refunded after the decision, in this regard, is finalized by KoPT.

5.16.4 No interest shall be payable on the account of Earnest Money Deposit in any case.

5.16.5 Forfeiture of Earnest Money Deposit :

The EMD may be forfeited

(a) if a Bidder withdraws their offer within the validity period of the bid / offer; and / or, alters / amends any terms and / or condition and / or quoted rate(s), within the validity period of the offer (excepting when option to do the same has been specifically granted by Kolkata Port Trust, Haldia Dock Complex in writing) making it unacceptable to the Kolkata Port Trust, Haldia Dock Complex;

or,

(b) if the successful bidder,

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- i) fails to submit the Performance Guarantee / Security Deposit (as per SCC) for the specified sum and in the specified form, within the stipulated time;

and / or,

- ii) fails to carry out the work or to perform / observe any of the conditions of the contract,

For the purpose of this provision, the validity period (of the bid / offer) shall include any / all extension thereof, agreed by the Bidder in writing. KoPT shall also be at liberty to deduct any of their dues from Earnest Money. It should be however be clearly understood that in case of any default in any terms and or condition of the contract after placement of order but before submission of Performance Guarantee / Security Deposit (as per SCC), the same shall be dealt with in accordance with the relevant provisions of contract, including forfeiture of Earnest Money.

D. SUBMISSION OF BIDS AND OPENING OF BIDS (EXCEPT PRICE BID)

5.17 Submission of bids

- 5.17.1** Bidders shall have to submit their bids [both **Pre-qualification & Techno-commercial Bid** and **Price Bid**] on-line **through MSTC portal only**.
- 5.17.2** The Bidder should submit (upload) the scanned copies of all the relevant and required documents, statements, filled up formats, certificates, etc. [in accordance with **ITB**], in the aforesaid portal, in support of their **Pre-qualification Criteria and Techno-commercial Bid**.
- 5.17.3** Before scanning the aforesaid documents, all pages are to be signed by a person duly authorised to sign on behalf of the bidder, pursuant to **ITB**, and are to be embossed with their official seal, owing responsibility for their correctness / authenticity. All pages of the aforesaid documents should be serially marked.
- 5.17.4** Any inter-lineation, erasures, or overwriting, in the aforesaid scanned & uploaded documents, shall be valid only if they are signed by the aforesaid authorised person.
- 5.17.5** The Bidder will have to produce the original documents or any additional documents, if asked for, to satisfy **Haldia Dock Complex, Kolkata Port Trust**.
- 5.17.6** The **Price Bid** comprised the prices only and the same are to be submitted electronically, through the website of **MSTC Ltd.** only. *No **hardcopy of priced "Price Schedule"** is required to be uploaded.*

5.18 Techno-commercial offer

- 5.18.1** No techno-commercial deviation and variation will be considered by KoPT, except where the Techno-commercial terms and conditions, will be found as impossible and irrelevant to the bidder.
- 5.18.2** If the Bidder deliberately gives wrong information or conceals any information / fact in their bid, which shall be favourable for acceptance of their bid, fraudulently, then the right to reject such bid at any stage of

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execution, without any financial liability, is reserved by **KoPT**.

5.19 Priced offer

The Bidder should quote the offered rate appropriately in the PRICE BID, electronically, through the website of **MSTC Ltd.** only. *Price indicated anywhere else, in any other form or manner, would not be considered for evaluation of Price Bid.*

5.20 Deadline for submission of bids

5.20.1 Bids must be submitted within the closing date & time **indicated in the Schedule Of Tender (SOT)**.

5.20.2 **KoPT** may, at its discretion, *extend the deadline for the submission of bids, prior to the closing date & time of e-Tendering*, by amending the Bidding Documents, in accordance with **ITB**, in which case all rights and obligations of **KoPT** and bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

5.21 Late Bids

This e-Procurement System would not allow any late submission of bid, after the closing date & time, as per the **Schedule Of Tender (SOT)** or extension, if any.

5.22 Withdrawal of bids

5.22.1 A Bidder may withdraw, substitute, or modify their bid on the e-Procurement System, before the closing date and time specified, but not beyond.

5.22.2 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidder on the “**FORM OF TENDER [for Techno-commercial (un-priced) Bid]**.” or any extension thereof. Modification / Withdrawal of the bid sent through any other means shall not be considered by **KoPT**.

5.22.3 Withdrawal of bid during the interval between such closing time on due date and expiring of the bid validity period, may result in forfeiture of EMD in accordance with **ITB**.

5.23 Bid opening [except Price Bid]

5.23.1 The bids [**except Price Bids**], will be opened at the date & time, indicated in the **Schedule Of Tender (SOT)**.

5.23.2 The on-line bid-opening event may be viewed by the bidders at their remote end, by logging on to the e-Procurement System. A copy of the bid opening record shall be made available on the e-Procurement System.

E. EVALUATION OF BIDS

5.24 Confidentiality

5.24.1 Information relating to the evaluation of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not

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officially concerned with such process until publication of the contract award.

5.24.2 Any attempt by a Bidder to influence KoPT in the examination, evaluation and comparison of the bids, or contract award decisions may result in the rejection of their bid and forfeiture of **EMD**.

5.24.3 Notwithstanding **ITB Clause No. 5.24.2**, from the time of bid opening to the time of contract award, if any Bidder wishes to contact KoPT on any matter related to the bidding process, they should do so in writing.

5.25 Clarification of bids

To assist in examination, evaluation & comparison of the bids and qualification of the bidders, the Employer (KoPT) may, at their discretion, ask any bidder for a clarification of their bid. The Employer (KoPT) may also ask any bidder to withdraw any terms/conditions mentioned by them in their offer, which are not in conformity with the terms & conditions specified in the bidding documents. In case any bidder fails to submit required clarification within the time stipulated by the Employer (KoPT), in this regard, the tender would be processed in absence of the clarifications, which may result in disqualification of the corresponding bidder for the instant tender. Any clarification submitted by a bidder, which is not in response to a request by the Employer (KoPT), shall not be considered. The Employer's (KoPT's) request for clarification and the response shall be in writing.

No change in the prices or substance of the bid shall be sought, offered or permitted, nor will the bidder be permitted to withdraw their bid before expiry of the validity period of the bid.

5.26 Deviations, reservations and omissions

During the evaluation of bids, the following definitions apply:

- (a) "Deviation" is a departure from the requirements specified in the bidding documents ;
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding documents ; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the bidding documents.

5.27 Responsiveness of bids

5.27.1 Responsiveness of a bid would be determined on the basis of the contents of the bid itself, and clarification(s) in accordance with **ITB**.

5.27.2 A substantially responsive bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,

- (a) if accepted, would
 - i) affect in any substantial way the scope, quality, or performance of the work specified in the Contract; or

- ii) limit in any substantial way, inconsistent with the Bidding Documents, KoPT's rights or the bidder's obligations under the proposed contract; or
 - (b) if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 5.27.3** Bidders shall not contain the following information / conditions to consider them responsive :
- (a) Either direct or indirect reference leading to reveal the prices of the bids in the Techno-commercial offers;
 - (b) Adjustable prices, other than the provisions stated in **ITB**.
- 5.27.4** If a bid is not substantially responsive to the requirements of the bidding documents, it shall be rejected by KoPT and may not subsequently be made responsive by the bidder, by correction of the material deviation, reservation, or omission.

5.28 Nonconformities, errors and omissions

- 5.28.1** During examination, evaluation & comparison of the bids and qualification of the bidders, the Employer (KoPT) may, at their discretion, ask any bidder for submitting any document(s) [in case of shortfall in required documents (relating to capacity or otherwise)]. In case any bidder fails to submit required documents within the time stipulated by the Employer (KoPT), in this regard, the tender would be processed in absence of the documents, which may result in disqualification of the corresponding bidder for the instant tender.
- Any document submitted by a bidder, which is not in response to a request by the Employer (KoPT), shall not be considered. The Employer's (KoPT's) request for submission of further document(s) shall be in writing.
- 5.28.2** **KoPT** shall examine the bids [including the further documents / clarifications received in accordance with **ITB**] to confirm that all documents requested in **ITB** have been provided and to determine the completeness of each document submitted.
- 5.28.3** Provided that a bid is substantially responsive, **KoPT** may waive any nonconformities or omissions in the bid that do not constitute a material deviation.

5.29 Examination of Pre-qualification Criteria

- 5.29.1** At first, the contents of the documents, submitted in support of the Pre-qualification Criteria [including the further documents / clarifications received in accordance with **ITB**] will be scrutinized and evaluated.
- 5.29.2** KoPT may, at their discretion, seek any other detail(s)/document(s), in subsequent course, to ascertain and get confirmed about the competence of the bidder. In case any bidder fails to submit required detail(s)/document(s) within the time stipulated by the Employer (KoPT),

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in this regard, the tender would be processed in absence of the documents, which may result in disqualification of the corresponding bidder for the instant tender. While evaluating Pre-qualification Criteria, regard would be paid to National Defence and Security considerations of the Indian Government.

- 5.29.3** In case it is found that the Pre-qualification Criteria has not been fulfilled by the bidder or otherwise their participation has not been found acceptable to **KoPT**, the respective bid will be treated as non-responsive and “Price Bid” of the respective Bidder will not be considered further.

5.30 Examination of Techno-commercial offer

- 5.30.1** After scrutiny of the **Pre-qualification Criteria, Techno-commercial Bids** of the Pre-qualified bidders [as indicated above] will be scrutinized & evaluated.

- 5.30.2** **KoPT** shall examine the bid to confirm that all terms and conditions specified in the **Technical Specification (Section VI), GCC (Section VII)** and **SCC (Section VIII)** have been accepted by the bidder without any material deviation or reservation or omission.

- 5.30.3** If on examination of the “**Techno-commercial Bid**” of pre-qualified bidders, it is found that they have not accepted all Techno-commercial terms & conditions of the Bidding Documents [considering all addenda / corrigenda, issued], “**Price Bid**” part of such bidder(s) will not be opened. “**Price Bid**” part of other bidder(s) will be opened subsequently as per procedure. Decision of **KoPT** on this matter shall be final.

5.31 Opening of Price Bid

PRICE BIDS of the bidders, who qualifies in the “Pre-qualification & Techno-commercial Bid”, will be opened on a later date, upon due intimation to the concerned bidders at their address furnished by them in their bid.

The on-line price-bid opening event may be viewed by the bidders at their remote end, by logging on to the e-Procurement System. A copy of the price-bid opening record shall be made available on the e-Procurement System

5.32 Comparison & Evaluation of Price-Bid and selection of Successful Bidder

- 5.32.1** While evaluating the Price Bids, the Price quoted by the Bidders against all items of the **Price Schedule** shall be taken into account and the **TOTAL PRICE**, which would be arrived at, by adding quoted prices of all items of the **Price Schedule**, will be considered for evaluation. Selection of the successful bidder will be made on the basis of the **lowest “TOTAL PRICE”** thus arrived.

- 5.32.2** In case it is found that the quoted “**TOTAL PRICE**” is same for two or more bidders and their bids become the lowest, the respective bidders will be given chance to submit their fresh Price Bid, subject to the condition that the fresh rate so quoted must be less than the rate quoted by the respective bidders earlier. Selection of the successful bidder will be made on the basis of the revised **lowest “TOTAL PRICE”** thus obtained.

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5.33 KoPT's right to accept any bid and to reject any or all bids

5.33.1 KoPT reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders.

F. AWARD OF CONTRACT

5.34 Subject to **ITB Clause No. 5.33.1**, KoPT shall award the contract to the Bidder whose offer has been determined to be the lowest evaluated bid [as per **ITB Clause No. 5.32**] and is substantially responsive to the Bidding Documents.

5.35 Notification of award

Prior to the expiration of the period of bid validity or extended validity in accordance with **ITB**, KoPT shall notify the **Successful Bidder**, in writing, that their bid has been accepted. The notification letter (hereinafter called the “**Letter of Acceptance**”) will be treated as “**Order Letter**” and will constitute the formation of the contract. Such order letter shall specify the “**Contract Price**” in line with **SCC Clause No. 11.1.4 a**).

5.36 Signing of contract agreement

5.36.1 After placement of order, **contract agreement** [as per the form furnished in **Section- XI**] should be executed between **Kolkata Port Trust** and the **Contractor (Successful Bidder)**. In this respect, within a week of receipt of intimation regarding acceptance of their bid, the successful bidder shall have to submit, at their cost, required **Stamp Paper** [Non-judicial Stamp Paper of worth not less than **₹ 50.00**] & **dummy papers** (for three sets).

Immediately after receipt of the above papers & documents, KoPT will send three sets of **contract agreement form** [one set printed on Stamp Paper & dummy papers and two sets printed on dummy papers], photocopy of **one set of documentary transactions between them and KoPT** (till finalisation & award of the Contract) and **Contract Documents** [incorporating all accepted changes and addenda / corrigenda issued, if any], duly signed by the representative of KoPT at appropriate places on each pages.

Within a week, thereafter, the Contractor (Successful Bidder) shall have to return **Contract Agreement forms** (three sets) [after affixing their common seal], the set of **documentary transactions** and **Contract Documents**, duly signed by them at appropriate places on each page.

5.36.2 The **contract agreement form & Contract Documents** should be signed by the authorized persons of the Contractor, authorized in this respect.

5.36.3 After receipt of the **contract agreement forms** (three sets), duly signed by authorised person of KoPT & authorized person of the Contractor (Successful Bidder), the same shall be kept under KoPT's custody, after affixing the Common Seal of KoPT.

One copy of such **executed contract agreement** (on dummy paper), along with one photocopy of signed **documentary transactions** and

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Contract Documents will be handed over to the Contractor for their record & future reference.

- 5.36.4** Total process of executing contract agreement should be completed within 28 days of issuance of “Letter of Acceptance” by KoPT. Until such contract agreement is executed, the other documents referred to the definition of the term “Contract” [GCC Clause], shall collectively be the contract.

5.37 Performance Guarantee / Security Deposit

- 5.37.1** Within **twenty-eight (28) days** of issuance of “**Letter of Acceptance**” by **KoPT**, the Successful Bidder shall provide the **Performance Bank Guarantee** in accordance with the **Special Conditions of Contract**, using the form furnished in **Section XI**.
- 5.37.2** Failure of the successful bidder to submit the above-mentioned **Bank Guarantee for Performance Guarantee / Security Deposit** or sign the contract agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the **EMD** in accordance with **ITB**.
- 5.37.3** All costs, charges & expenses, including Stamp Duty, shall be borne by the Successful Bidder.
- 5.37.4** No interest / charge, of whatsoever nature, shall be paid by **KoPT** on the amount of Performance Guarantee / Security Deposit, held by them (as per **SCC**) at any stage.

SECTION - VI

TECHNICAL SPECIFICATION OF OUTDOOR TYPE 1010 KVA DIESEL GENERATOR SET WITH AMF PANEL

A.

Scope of work

- 6.1.** Supply factory assembled, factory tested Engine-Alternator set with CPCB approved acoustic enclosure capable of delivering not less than 1010 kVA at 0.8 pf at site conditions including all accessories like base frame, silencer, exhaust flexible piping, fuel tank, fuel piping (B class) with valves and other fittings for supply and return lines, fuel transfer pump with hose pipes and clips, suitable capacity of battery for starting on MS frame, battery charging dynamo/alternator necessary Anti vibration mounting arrangements, with manual control panel, Engine instrument panel, armoured copper conductor control cable with suitable glands from Genset to AMF panel etc., complete conforming to the attached specifications as required.
- i) Supply, Installation, Testing and Commissioning of 1 No. 1010 KVA capacity, 3.3 KV, 1500 rpm outdoor Diesel Generator Set with Acoustic enclosure type, separately excited from 24V Battery.
 - ii) Supply of all materials and making suitable PCC foundation, base frames and anti-vibration pads.
 - iii) Design, Supply, Installation, Testing and Commissioning of 1 No. Microprocessor based Auto-Mains Failure (AMF) panel complete with distribution cubicle switchboard and its allied equipments.
 - iv) Supply and laying of HT Power Cable 1C x 630 sqmm, 4 runs, PVC Insulated XLPE, 3.3KV grade Aluminium armoured type cable from DG Set – AMF panel- Load distribution panel, Main panel – AMF panel and making end terminations with cable terminations kit for 1C x 630 sqmm HT power cable.
 - v) Supply and laying of Control cable (XLPE, 1.1KV grade, PVC insulated copper armoured cable).
 - vi) Supply and installation of 24 V DC Maintenance free Battery Bank consisting of 12V, Batteries -02Nos, of 180AH (at 10 Hour Rate) Cells (Maintenance free, Lead Acid /gel type).
 - vii) Supply, installation and commissioning of Battery Charger,

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to be used for charging 24 V, 360 AH Battery Bank , should be of Float-cum-Boost Charger Type , having provision for auto Changeover from Boost to Float & vice-versa and following Technical features:-

- a) Should be suitable for Indoor installation and to be supplied with all accessories.
 - b) Should have facility to regulate the Battery Charging current and output voltage as per requirement and limiting the total current within the maximum capacity of the charger.
 - c) Should be suitable for operation in Manual Mode, besides the Auto Mode. Suitable device is to be provided for adjusting charging current and voltage when the charger is to be operated in Manual Mode.
- viii) Supply, installation and commissioning of 24V DCDB shall be floor mounted/ wall mounted type with IP-55 enclosure and shall have 3(three) incomer MCB's-63A, 3(three) Outgoing MCB's-40A along with suitable Copper busbars for 25KA for 3sec.

Following meters with selector switches shall be provided for measurement.

Analog Voltmeter of appropriate scales with Selector Switch for indicating bus voltage.

Two sets of Instruction Manuals for Erection, Operation & Maintenance, two sets of Drawings for Equipment Details and two sets of Circuit Diagram should be submitted along with the above equipments.

- ix) Earthing to be carried out as per latest IS standards for the Generator Set.
- x) After successful commissioning of DG Set, the contractor shall carry out Comprehensive Maintenance for five years after expiry of Guarantee Period for two years.

The successful bidder should carry out the above complete work as per IER and other relevant standard. The scope of work is not restricted, If, any material is shortage, the contractor shall fulfill the complete system as per IER and relevant standard on the offered rate.

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B. List of Approved Manufacturers /makes :

6.2.

Sl. No.	Items	Name of the Manufactures
i)	Engine	Cummins / Cater Pillar/MTU/Toyo Denki
ii)	Alternator	Stamford / AVK or AVKC /Siemens
iii)	Microprocessor for AMF panel	Deep Sea/ Woodward / C&S
iv)	VCB & MCCB	L&T / Siemens / Schneider / ABB
v)	Panel Meters	AE / IMP / Universal / Reshabh / Kaycee / Meco / Enercon / Schneider (Conzerv) / L&T / Secure.
vi)	Lead Acid Battery	Exide / Furukawa / Amco / Amara Raja/ Crompton Greaves / Cummins Pulse .
vii)	Power Cables	Polycab/ Finolex / Torrent / Havells
viii)	Fire Extinguishers	ISI MARKED

C. Detailed technical description :

6.3. DIESEL ENGINE :

Diesel Engine shall be Radiator cooled of any of the approved make capable of developing 1180 BHP at 1500 rpm confirming to BS 5514/ISO: 3046. To deliver specified continuous alternator output at 0.8 lagging power factor at NTP condition.

The exhaust pipe line shall be of suitable dia for fixing the hospital grade silencer with suitable supports at suitable intervals with all its accessories such as bends, flanges, couplings etc.(including rain cap at the end to prevent the water entering inside) providing sleeves at the wall crossing complete as required.

The exhaust pipe line shall be with thermal insulation with glass wool, covered with wire mesh and gladded with 24 gauge aluminum sheet.

Engine shall be of 12 cylinders with four strokes and shall be of reciprocating compression ignition (Diesel) type, water cooled, electric start, turbocharged & after cooled model, Multi cylinder with electronic fuel governor suitable for the above generating set. The engine should have the capacity of 10% over loading for one hour in twelve hours duration.

Engine should have a well-designed air handling system with Dry type replaceable paper element air cleaner with restriction indicator and Optimised turbocharger for increased altitude capabilities.

Engine should also contain Spin on lube oil filter, Plate type lube oil cooler, Electrical starter motor with soft start engagement feature, Battery charging alternator and 2 x 12 V 180AH DC Batteries.

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a) ENGINE INSTRUMENT PANEL AND SAFETY CONTROLS

i) INSTRUMENT PANEL

It shall comprise of the following:

- a) Starting switch with key
 - b) Lube oil pressure gauge
 - c) Battery charging ammeter
 - d) Stop push button or lever.
 - e) Water temperature indicator
 - f) Radiator water level indicator.
- ii) Safety control auto cut off for low lube oil pressure, High water temperature and over speed with audio and visual lamp indication on control panel.
 - iii) Hour meter cum RPM indicator.
 - iv) Engine and alternator are mounted on a common MS fabricated base frame with AVM pads.
 - v) Base frame with integral fuel tank is to be provided with drain plug, air vent, inlet and outlet connection, level indicator and provision for cleaning
 - vi) Standard integral set-mounted radiator system, designed and tested for 50°C ambient temperature

INSTRUMENT PANEL

- i) Hospital grade silencer
- ii) Fuel tank
- iii) Hand operated fuel transfer pump with 5 mtr. length suitable hose pipe.

b) SPEED & GOVERNING

The Engine shall be fitted with governing system as per relevant BS specification amended up to date.

c) ENGINE START

Engine shall be cold and self starting type. The starter battery shall conform to IS 7372 amended up to date and of sufficient capacity to meet the Engine starting and control gear requirements

d) QUIETNESS OF OPERATION

The set shall have minimum vibration, noise under all conditions of

load. The set shall be properly dynamically balanced.

e) **SILENCER**

Efficient heavy duty hospital type silencer suitably optimised to meet stringent noise emission standards laid down by MoEF/CPCB for the exhaust shall be supplied. For silencer there shall be Insertion loss of 25dBA at 1 m from exhaust pipe under free field condition. A test certificate to this effect shall be furnished.

6.4. ALTERNATOR

Alternator of any of the approved makes as mentioned above, capable of generating 1010 KVA at 0.8 pf (lag), 3.3KV, 3 Ph, 50 Hz, AC 3 wire system while operating at 1500 RPM and suitable for direct coupling with the above diesel engine. The alternator should have the capacity of 10% over loading for one hour in twelve hours duration.

- a) The alternator shall be copper wound of totally enclosed type screen protected type with class 'H' insulation, designed and constructed to withstand tropical conditions, self regulating type conforming to BS 2613/IS 4722 amended up to date as applicable. Alternator shall be brushless type, screen protected, revolving field and self regulated through an AVR. It shall have $\pm 0.5\%$ voltage regulation in static conditions. It shall have class H insulation with IP 23 protection enclosure.
- b) It should contain 3 Phase reconnectable winding with 12 terminals brought out for connection.
- c) It should have Better motor starting capability and best in class efficiency.
- d) It should have compact design with sealed bearings for longer life and lesser maintenance.
- e) It should contain impregnation on all wound components for better mechanical strength.

6.5. CONTROL PANEL

Control panel should be manufactured out of not less than 1.6 mm thick CRCA sheet and is powder coated for weather-proof and long lasting finish. The control panel should consist of the following parts:

- a) Power Command Controller
- b) Aluminium bus bars with suitable capacity with incoming/ outgoing terminals
- c) Indicating lamps for 'Load ON' and 'Set Running'

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- d) Instrument fuses duly wired and ferruled
- e) MCCB of suitable rating with overload and short circuit protections

6.6. POWER COMMAND

The Diesel Generator should have Power Command control system, which is a microprocessor based generator set monitoring, metering and control system with LCD display designed to meet the demands of today's engine driven generator sets with following functionalities:

- a) Intuitive operator interface which includes LED backlit LCD display with tactile feel soft-switches & generator set status LED lamps
- b) Digital AVR for shunt or PMG excitation with torque matching.
- c) Amp Sentry Protection, Sensor Failure Indication, Programmable Idle Speed Control, Digital Synchronizing Function, Sync Check, Synchronoscope, Auto Load Sharing, Compatibility to Remote Monitoring and Smart Starting.
- d) Digital electronic governing with temperature compensation and smart starting.
- e) SAE J1939 interface to Full Authority Electronic (FAE) engines.
- f) Remote start-stop
- g) Engine metering: Oil pressure, Coolant temperature, Battery voltage, Engine speed
- h) AC Alternator metering: L-L Voltage and L-N Voltage, Current (1 and 3 phase), Volt-Amperes (phase and total) and Frequency.
- i) Engine protection: Low lube oil pressure, High/Low coolant temperature, Over speed, Battery Over/Under/Weak Volts, Fail to crank/start, Sensor failure.
- j) AC Alternator protection: Over/Under voltage, Over/Under frequency, Over current, Short circuit and Loss of AC sensing.
- k) Data logging: Engine hours, Control hours, Engine starts and up to 10 recent fault codes
- l) Configurable glow plug control
- m) Configurable cycle cranking
- n) 12 and 24 Volt DC operation
- o) Sleep mode
- p) Programmable I/Os (4 inputs and 2 outputs), expandable with

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AUX101/102 modules

- q) Modbus interface (RS485 RTU)
- r) In Power compatible (PC based service tool)

6.7. ACOUSTIC ENCLOSURE

The enclosure shall be fabricated out of not less than 1.6 mm thick CRCA sheet duly powder coated.

- a) It shall specially designed to meet stringent MoEF/ CPCB norms of 25 dBA @ 1mtr at 75% load under free field conditions.
- b) The acoustic enclosure should be made of CRCA sheets in green shade and a structural/ sheet metal base frame painted in black.
- c) Enclosure is power coated (inside as well outside) with a special pure polyester based powder. All Nuts and bolt/external hardware are made from stainless steel
- d) The doors are gasketed with high quality EPDM gaskets to avoid leakage of sound.
- e) The door handles are lockable type
- f) The rock wool is further covered with fibre glass cloth and perforated powder coated MS sheet.
- g) Specially designed attenuators are provided to control sound at air entry to the container and exit from the container.
- h) Adequate ventilation is provided to meet air requirement for combustion and heat removal.
- i) There is no provision for emergency shut down from outside the enclosure.
- j) It should have base lifting for easy handling at customer site
- k) It should be designed to have optimum serviceability
- l) It should have air inlet louvers specially designed to operate at rated load
- m) It should be made on special purpose CNC machines for consistency in quality and workmanship
- n) It should contain 11 tank pre-treatment process and UV resistant powder coating of all parts to withstand extreme environment
- o) It should use special hardware for longer life

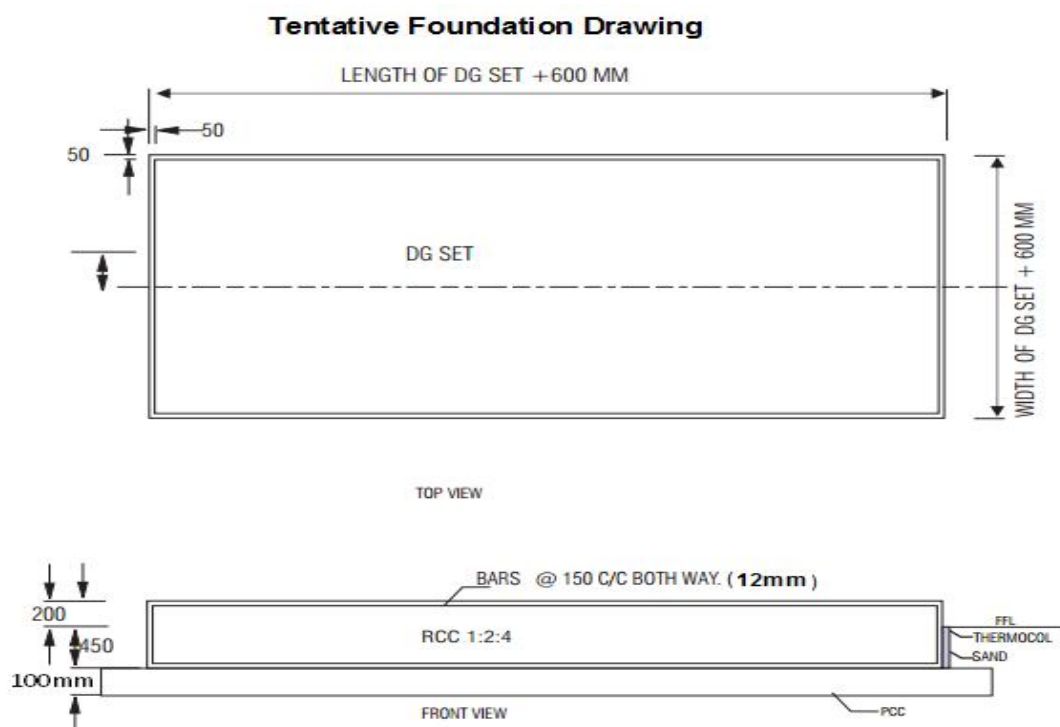
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- p) It should have flush styling - no projections
- q) It should have fluid drains for lube oil and fuel
- r) It should have fuel filling arrangement inside the enclosure

The firm should clearly give details of specification with a copy of certificate issued by the designated agencies as per Environment Act along with the tender. In the absence of these enclosures, the tenders shall be liable for rejection.

6.8. PCC FOUNDATION FOR 1010 kVA DG SET

The PCC foundation shall be carried out by the contractor as per latest standard norms. The tentative foundation drawing shown for the reference. However, to carry out work as per the site condition.



6.9. AUTO MAINS FAILURE PANEL

The AMF panel shall be fabricated out of CRCA steel sheet of minimum 16 SWG, totally enclosed dust, dump and vermin proof, cubicle type with easy accessibility to all control wiring. PVC insulated copper wire from front. Panel shall have sufficient working space for making connections of cables etc. Tinned copper bus bars of adequate dimension shall be provided. The HRC fuses for instruments and control circuit shall be provided. Necessary cable gland for connecting incoming and

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outgoing cables shall be provided. All doors and joints will be suitably gasketed to form dust and vermin proof. The panel shall be powder coated. The AMF panel shall be supplied from the panel manufacture who are having the test Certificate of CPRI/ERDA. The AMF panel will be complete in all respects with busbars, neutral links control system etc. and will comprise of the following:

- a) 01 no VCB of suitable rating with overload and short circuit protections for Alternator.
- b) 02 nos. 3 Pole 1250A, 25 kA VCB (microprocessor release with O/L, S/C and E/F protection), with CTs, Auxiliary contacts, under voltage release, door interlocking , indication lamps, for 02 nos main incomers. Necessary control wiring for automatic changeover the power from Mains to Alternator and Alternator to Mains { against 02 incomers} shall be under the scope of the Contractor.

6.10. THYRISTOR CONTROLLED STATIC BATTERY CHARGER

Battery charger of suitable rating shall be of semiconductor type with automatic boost cum trickle selection with auto cut off facility and with suitable ammeter and voltmeter for charging from AC mains. It shall be provided in addition to dynamo along with the engine. The tenderer shall include AC and DC wirings of battery charger in recess/surface armoured U/G cable of copper conductor.

6.11. MICROPROCESSOR BASED AMF CONTROLLER

The AMF panel power command control is microprocessor based generator set monitoring and control system mounted in the genet control panel. The control provides simple operator interface to the indication and an LCD hour counter. The integration of all function in to single control system provides enhanced reliability and performance compared to conventional generator set control systems.

a) CONTROL SYSTEM

The standard control system includes all the functions necessary to locally or remotely start and stop and protect the generator set.

b) KEY SWITCH – OFF AND MANUAL/AUTO

In the OFF mode, the generator set is immediately shut down (if running) and cannot be started. It also resets any faults, in this mode, all power is removed from the control and its outputs in MANUAL/AUTO model, the control is powered. The manual start push button and remote start input become enabled.

c) MANUAL START BUTTON

This button will initiate a Genset start sequence when the control is in manual/auto mode. This button is locked out when the engine is running.

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d) ENGINE FAULT INDICATION (LED)

The common Engine fault indicator panel should have following indications:

- i) Fail to start
- ii) Over speed, under speed
- iii) Low oil pressure
- iv) High engine temperature
- v) Battery charging alternator fail

e) LCD ENGINE HOUR COUNTER

The control includes an LCD engine hour counter. The counter will increment whenever the engine is running.

f) FUNCTIONS : CONTROL/PROTECTION

Remote Start – When in Manual/Auto mode the control accepts a ground signal from remote devices to automatically start the generator set.

Over speed shutdown

Engine Starting – The control system supports automatic engine starting, which included solid state outputs for starter control, and fuel solenoid control. The start disconnect is achieved by monitoring main alternator output frequency – Low lube oil Pressure Shutdown and High Engine water temperature shutdown.

Starting Sequence – in the Manual/Auto mode, the crank cycle is repeated upto 3 times, if starting is still unsuccessful a Fail to Srt fault is generated. If the engine starts, the crank cycle is terminated at crank disconnect frequency of 20 Hz. – Under speed Shutdown, Fail to Start, Shutdown after 3 attempts, Battery charging alternator fail warning.

Microprocessor based AMF module incorporating: Functions:

- Supply failure timer
- Restoration timer
- 3 impulse automatic engine start / stop logic
- Mains / generator voltage & frequency sensing

controller with the following features:

- Water temperature / Lube oil pressure / engine speed
- Voltage / ampere / frequency / kVA
- Running – hour counter
- No. of starts
- Fault indication (LED type)
- Over / under speed
- Fails to start

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- Low oil pressure
- High engine temperature
- Under / over voltage
- Over current
- Combined meter for kW / Power Factor / kVA
- Electronic KWH meter (counter display)
- Current transformers

Relay

- Earth Fault Relay (Electronic type)
- Over current Relay (Electronic type)

Indications (LED)

- DG ON, Load on DG
- Mains ON, Load on Mains, Battery Charger ON

Push Buttons (AMF module by pass mode)

- Generator contactor close / trip
- Mains contactor close / trip (If provided)
- Fault accept /reset.

6.12. GENERAL REQUIREMENTS

The engine and alternator shall be assembled on a common base frame. Alternator shall be directly coupled to the engine by means of flexible couplings. The alternator shall be provided with its own exciter. When separate units are provided for this purpose, they shall be driven by the alternator shaft itself.

6.13. LUBRICATION

Lubrication shall be positive pressure type lubricating for all moving parts. No moving parts shall be required lubrication by hand either prior to the starting of the engine or while it is in operation. Lubrication oil shall conform to relevant IS amended up to date. Necessary lubricating oil filter shall be provided for operation at normal conditions for a period of 250 hours, without any necessity of replacement and cleaning. Temperature and pressure gauges shall be fitted to the lubricating system.

6.14. FUEL SYSTEMS /FUEL TANK

The fuel tank shall have capacity of 690 litre. The tank shall have level indicator marked in liters, filling inlet with removable filter.

It should contain PT fuel system with Electronic Step Timing Control (ESTC) injectors which smoothly stabilise engine speed under load with A1 class Electronic governing. It should also contain Dual fuel filter system which is a pre filter including water separator and Water In Fuel (WIF) sensor and main filter

6.15. OPERATING CONDITIONS

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The Engine Alternator shall be capable of delivering the specified output under the site conditions.

6.16. OTHER GENERAL REQUIREMENTS

i) **THE PERIOD OF OPERATION**

The Engine Alternator set offered shall be continuous duty type conforming to BS 5514 and BS : 2613. The set may be idle for a period except for routine test periodically.

ii) **OVER LOAD**

The set shall be capable of taking 10% overload for a period of one hour during any 12 hours period while operating continuously at full rated load

iii) **OUTPUT VOLTAGE FREQUENCY AND WAVE FORM**

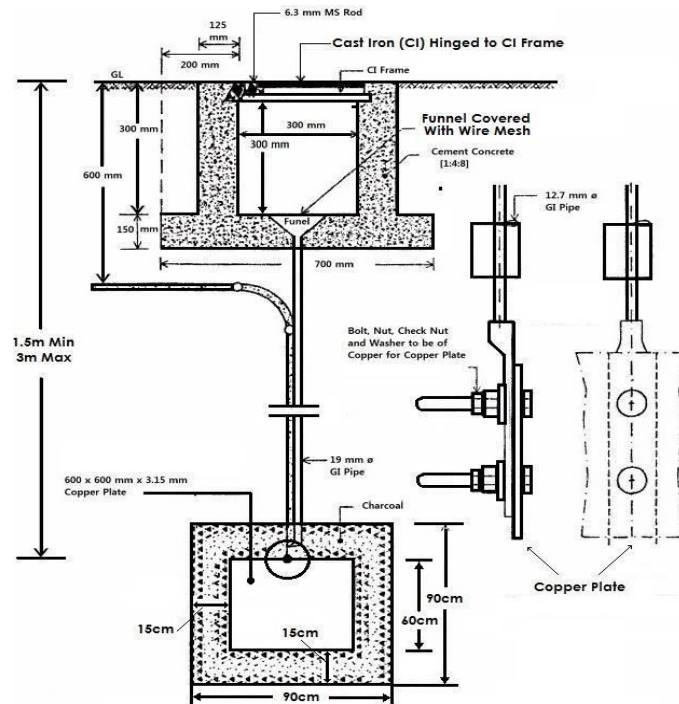
Normal output voltage shall be 3.3 KV with $\pm 2.5\%$ manual adjustment at all conditions of load with coarse and fine controls. Frequency shall be 50 cycles per second $\pm 4\%$. Output wave form shall be sinusoidal at all load conditions. Alternator shall be of brushless type provided with AVR suitable for voltage regulation of $\pm 2.5\%$ or better at all load conditions and with prime mover speed drop up to 4% of nominal speed. Alternator shall be provided with radio frequency suppressor and in built frequency rollover protection.

iv) **SAFETY PROVISION**

All Exposed moving parts like fan blades etc. shall be provided with suitable Guards / covering to avoid the chances of accidents.

v) **EARTHING**

Provision shall be made for earthing of all non current carrying metal parts of the equipment earth lugs of suitable size shall be provided wherever earth connection to the apparatus are necessary earthing work shall be carried out as per IE rules / IS specifications amended upto date. The tentative foundation drawing shown for the reference. However, to carry out work as per the site condition.



vi) FINISH

All exposed metal parts shall be suitably finished to prohibit corrosion under climatic conditions prevailing at site.

6.17. CONSTRUCT UNIFORM PLATFORM (MASONRY WORK)

The empty area of size (8mtr x 3mtr x 1mtr) shall be covered to make uniform platform equivalent to the existing surface. The platform shall be constructed as per latest standard norms of M20. The measurements are tentative and vary as per the site condition.

6.18. SUPPLY AND LAYING OF HT POWER CABLE & CONTROL CABLE

The cable measurements are tentative and may vary as per site condition. Supply & laying of HT Power Cable 1C x 630sqmm, 4 runs, PVC Insulated XLPE, 3.3KV (UE) grade Aluminium armoured type cable from DG Set – AMF panel- Load distribution panel to VCB panel and making end terminations with suitable cable terminations, conforming to relevant IS with latest amendments with ISI mark of approved make.

Supply and laying of control cable 4C X 2.5 sq mm, 24C X 2.5 sq mm, 2C X 2.5 sq mm & 2C X 4 sq mm (XLPE, 1.1KV grade, PVC insulated copper armoured cable) with terminations for the said cable conforming to relevant IS with latest amendments with ISI mark of approved make.

Note: i) Test certificates from the manufacturers for the cable shall be

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submitted along with the supply of cable.

LT cable shall be laid along with suitable GI pipe and connected to Mains panel, AMF panel, DG set and Load distribution panel. The cable quantity shown in the price schedule is tentative. The Contractor shall measure the quantity and supply the same. However, the payment will be made by actual length.

The end termination for 1100V grade underground cables shall be of crimping type lugs shall be supplied by the contractor. The crimping type lugs shall be installed by highly skilled personnel.

Scope of work shall also include Control cable for DG Set. The cable shall be laid underground / on wall / in pipe/existing trench as per site requirement.

After installation of Distribution Panel testing and commissioning shall be done as directed by Engineer in charge.

- 6.19.** Tests would be carried out as per IS , by the Contractor , before dispatch of the assembled DG set, at manufacturer's works, in presence of the representative(s) of the Engineer.

6.20. INSTALLATION, TESTING AND COMMISSIONING

Installation, testing and commissioning of the above Genset complete with its acoustic enclosure, AMF panel and all equipments, accessories/ associated items on the existing cement concrete floor / foundation including supplying consumables like lube oil, fuel and providing artificial resistive load, cabling, switching arrangements, etc., for trial run (i.e. 2 hours full load, 1 hour 10% overload & 1 hour at no load) and final Acceptance Testing of Genset (i.e. full load for 6 hours & 10% over load for 1 hour) including topping up of lube oil upto full mark and filling of fuel suitable for working etc., as per specifications as required. Load trail to be done as per site condition. The tentative drawing shown for the reference. However, the work has to be carried out as per the site condition.

6.21. ACCEPTANCE TEST

The test shall be with artificial resistive load only and nonlinear load will not be arranged for testing purpose. Load trail to be done as per site condition.

6.22. INSULATION TEST

Immediately after the over-load test, the insulation resistance between the stationary coil and the frame is tested with 1.1KV/2.5KV Meggar.

6.23. REGULATION TEST

The Automatic and manual regulation of the alternator at no load, half load and full load are noted for the nominal voltage of 230 Volts between phase and neutral at power factor 0.8. All the arrangements for all the test shall be the responsibility of the successful bidder.

6.24. FUNCTIONAL TEST

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Performance of incoming switch / circuit breaker starting arrangement for the engine safety features, instruments and control panel etc., shall be verified.

D. MAINTENANCE WORK DURING DEFECT LIABILITY PERIOD AND CMC PERIOD

- 6.25.** After successful installation by the Contractor and accepted by HDC, Maintenance shall be carried out by the contractor during guarantee period of 2 years and CMC period of 5 years, after expiry of 2 years' Guarantee period
- 6.26.** The Maintenance work is comprehensive in nature, therefore, all the repairing and maintenance cost including spares to be borne by the Contractor.
- 6.27.** The contractor shall submit the maintenance schedule to HDC for approval based on OEM recommendation to carry out the maintenance work during Defect Liability Period, as well as during CMC period of 5 years
- 6.28.** The contractor shall maintain records in Log book for the entire Maintenance work duly signed by authorised representatives of HDC, KoPT & the Contractor and the same need to be submitted along with bill for payment.
- 6.29.** During the maintenance, the contractor shall clean properly the D.G. set, AMF panels, etc. and check all the parameters as per maintenance schedule and standards and also with the satisfaction of the HDC representatives.
- 6.30.** The Contractor shall arrange training for the technical staff of HDC for maintenance of D.G. set. The training should include AMF panel operation on both the mode i.e. Auto/manual start of DG set immediately during failure of power supply & malfunctioning of AMF panel including important check list.
- 6.31.** The Contractor shall complete the preventive maintenance activity as per schedule and shall record in register with sign of appropriate authority of HDC and the Contractor.
- 6.32.** Payment shall be made on quarterly basis during Defect Liability Period, as well as during CMC period. However, the Contractor shall submit the records showing availability and maintenance report, along with the bills.
- 6.33.** The Contractor shall ensure 99% availability of the D.G. set on each quarter during Defect Liability Period, as well as during CMC period, failing which 1% of the quarterly bill value would be deducted from the quarterly running bills.

E. OPERATION INSTRUCTIONS AND DRAWINGS

The Contractor shall provide 2 sets of operation and maintenance manual, complete layout drawings of Genset, AMF panel with wiring, earthing system and battery charger for DC source compiled in the spiral binding hard copy and soft copy hand over to HDC representative.

F. INSPECTION AND TESTING OF GENERATOR SET

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The engine alternator sets shall be tested at factory, before dispatch to site and at site as per detailed specification of NIT in the presence of department representatives.

All the following tests to check the performance of the set to meet the requirements of specifications shall be carried out at site after installation. The engine shall be run for at least half an hour on no load and then the engine shall be run continuously for six hours at its full rated load. 'The set will be tested with an overload of 10% for one hour. The over load test may be taken at any stage during the full load period and need not be at the end of six hours of full load test. During the full rated load test half hourly readings of the stationary coil temperature are to be taken and the rise in temperature should not be more than the value stipulated as per relevant clauses of insulation given in IS - 4722 - 1958. The fuel consumption should be within 5% of the manufacturers stipulated ratings.

G. SCOPE OF WORK & TECHNICAL SPECIFICATION OF INDOOR TYPE HT 3.3KV VCB Panel :

General :

- a) The works will be executed to comply with the General Specifications for Electrical works and conforming to the Indian Electricity Act & rules, BIS and direction of the Engineer.
- b) The items of work shall be executed as per detailed technical specifications and scheme. In case of contradiction between schedule of work with its Additional Specification and the General Specification, the former shall prevail.
- c) The work will be executed as per general arrangement drawing and detailed fabrication drawings duly approved by the Engineer. The various items of equipment will be ordered only after the drawings are approved and quantities in detail of various items are ascertained as per actual requirements. Therefore the actual quantities / measurement may vary from the stipulated quantities, which are only estimate.
- d) The schematic diagram / dimensional drawings of the various electrical cubical panels shall be got approved from the Engineer before fabrication and shall comply with specifications and Indian Electricity Rules. The panels shall conform to IS: 8623/1993.
- e) All panels shall be suitable for 45°C ambient temperature.
- f) The switchgear housing shall be heat resistant and having high impact strength. The terminal shall be protected against finger contact to IP20 degree of protection.
- g) Breaker shall have LCD display to show the metering and protection parameters.
- h) It is important that every equipment is tested fully before dispatch.
- i) Test certificates both type test and routine tests, wherever required, shall be furnished along with supply for all Electrical items.
- j) All electrical works shall be tested by the Contractor in the presence of HDC,KOPT / TPI AGENCY and to the entire satisfaction, as per IE Rules.
- k) The Contractor shall arrange the testing / measuring equipment by own cost to carry out pre commissioning test of all equipment at site as per IER.
- l) Contractor shall have a valid Electrical Contract Licence with HT installation

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issued by appropriate authorities from State / Central Govt.

- m) The Contractor / agency will engage suitable qualified / experienced & licensed engineering supervisor for the work and suitable skilled personnel with required license for doing the erection work. Required special tools are to be used during the execution of the work.
- n) The firm shall deploy only licensed personnel as required under IE Rules, for execution of the electrical works. The firm shall be liable to submit the list of such personnel along with the attested copy of the licenses at the time of execution.
- o) The work will be performed as per the day to day instruction and approval of the Engineer or his representative. All materials / equipment will be used after taking approval of the Engineer or his representative.
- p) Equipment will be duly inspected in the manufacturer's works / premises by the representative of HDC, KoPT or Third Party Inspection Agency before dispatch to the site, in line with the approved Quality Assurance Plan (QAP).
- q) All concealed work and earthing shall be done in presence of the Engineer or his authorized representative.
- r) The Contractor holds responsibility for the entire job as per relevant specifications. If any item is left out within the schedule of work but if it is considered essential for the completion of the job, the contractor has to carry out the items as extra substituted item.
- s) Contractor shall obtain permit / approval from concerned authorities before commencement of work. All documents / drawings, required for such permit / approval, shall be prepared by the Contractor.
- t) In connection with aforesaid work, transportation and handling of all materials should be done by the Contractor at their own risk, cost and arrangement.
- u) The Contractor should arrange, at their own cost, all necessary tools, tackles, lifting machineries, scaffolding, temporary lighting, different vehicular transport etc., required for the execution of total work.
- v) Any part or whole of the system which requires approval of the Central Electricity Authority, or any other statutory body, should be arranged by the Contractor at his cost. It is the responsibility of the Contractor to submit the system drawings with all details to the Electrical Inspectorate and obtain their approval.
- w) Data / documents to be furnished by the Contractor :
 - I. Three Set of copies of installation, operation and maintenance manuals, descriptive bulletins etc, shall be furnished prior to / at the time of despatch of all materials. Manuals shall include the following aspects:
 - Outline dimension drawing showing relevant cross sectional views, earthing details and constructional features including foundation drawing.
 - Rated voltage, current, duty cycle and all other technical information which may be necessary for correct operation of the switchgear.
 - Pre-commissioning test.
 - Operating procedure.
 - Maintenance procedures.
 - Precaution to be taken during operation and maintenance work.

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- II. Test Certificates: Test certificates both type test and routine tests, wherever required, shall be furnished along with supply for all Electrical items.
- III. On completion of work, the Contractor shall submit all drawings, manuals and test certificates, etc. for all equipment / materials ordered and as specified by the Engineer , which includes “As Built Drawing” for the for the entire system.

x) **SCOPE OF WORK :**

- 6.35** The scope of work includes includes Design, Fabrication, Supply, Installation, Testing and Commissioning of 31 Nos. (13 Nos. for Substation, 4 Nos. for Machinery House MH-1, 4 Nos. for Machinery House MH2, 5 Nos. for Machinery House MH3 and 5 Nos. for Impounding Pump House) indoor HT 3.3KV, 1250A, 3 phase, 50Hz 25KA VCB for 3 sec and Installation of the same at above mentioned locations.
- 6.36** Dismantling of existing 21 Nos. BOCB & 6 Nos. Isolator (11 Nos. at Substation, 2 Nos. BOCB & Isolator each at Machinery House 1, 2 Nos. BOCB & Isolator each at Machinery House 1, 2 Nos. BOCB & Isolator each at Machinery House 1, 4 Nos. at Impounding Pump House) along with accessories and depositing the same at HDC's store.
- 6.37** The scope of 3.3 KV HT Switch Gears for the subject work are tabulated below :

Table-I

Locations	Details of Circuit Breakers (VCB)					
	Incoming	Bus coupler	Motor feeder/ DG	Transformer feeder	Outgoing	Total
Lock Substation	2	1	1(DG)	4	5(Including 01 spare)	13
Machinery House MH-1 (outer)	1	-	2		1	4
Machinery House MH-2 (intermediate)	1	-	2		1	4
Machinery House MH-3 (inner)	2	-	2		1	5
Impounding Pump House	1	-	3		1	5
Total	7	1	10	4	9	31

- 6.38** The switchgear shall be of metal clad, single bus bar/Double bus bar as applicable, self standing, dust proof construction, indoor cubicle

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type fitted with vacuum circuit breakers in fully draw out execution.

The VCB shall be horizontally isolated, horizontally drawn-out type, truck mounted and ground operated.

The circuit breakers shall be suitable for following duties

- ⇒ To withstand inrush magnetizing currents of transformers and capacitor bank 'ON' and 'OFF' operation.
- ⇒ Transient surge produced by one CB due to severe chopping during rapid interruptions of inductive current e.g motors, shall be within limits allowable for overhauled motors according to IEC34 part 1 otherwise suitable surge absorber shall be provided.
 - The controls, indicating lamps, relays and meters shall be mounted on separate control & relay panel.
 - Operation counter, close/open mechanical indications spring charged/discharged indication shall be provided.
 - All circuit breakers shall have motor operated spring charged mechanism for closing and shunt tripping coil (24V DC). Closing coil shall be suitable to operate between 85% to 110% of rated voltage and tripping coil between 70-110% of rated voltage. Spring charging motor shall operate between 85-110% of rated AC. Voltage.
 - Jumpers in the cubicle also shall be of same current rating as that of the breaker. Only the jumpers connected to CT shall be rated according to CT rating.
 - A manually operated device to enable charging of closing springs.
 - Manual / Mechanical tripping arrangement for emergency tripping of CBs.
 - All circuit breaker truck shall have service, test and draw out positions. Test position shall engage only the auxiliary (control) contacts to close the CB during testing.
 - Panel door switch shall be provided for illumination inside panel.
 - Anti pumping feature shall be provided.
 - All live parts shall be insulated by heat shrinkable sleeve only.
 - The cubicle shall be provided with a position changing gear arrangement in such a way that by engaging detachable device from outside the front door, it shall be possible to move the breaker truck and change position without opening the cubicle door. Facilities for pad locking in each position shall be provided.
 - Each cubicle shall have mimic diagram with metal strip.
 - Each cubicle shall be of compartmentalized construction and shall have separate compartments for bus bars, CTs and outgoing cables, metering and protection devices.
 - All circuit breaker trucks of same rating shall be identical in all respects (except metering and protective devices) and shall be interchangeable with similar breaker panel.
 - Continuous earth bus shall be provided throughout the board.
 - The position of various control switches, push buttons, and levers, etc. requiring manual operation shall be at a height not less than 450

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mm and shall not exceed 1850 mm from the finished floor level.

⇒ In the design of the switchgear the following positive interlocking shall be provided.

1. It shall not be possible to move the truck from the isolated to the Service Position unless low voltage plug and socket connections have been made.
2. It shall not be possible to disconnect the low voltage plug and socket as long as the circuit breaker truck is in service position.
3. It shall not be possible to withdraw the truck without disconnecting the low voltage plug and socket.
4. It shall not be possible to move the truck from the service to the isolated position or vice-versa with the circuit breaker in the 'ON' position.
5. It shall not be possible to switch on the circuit breaker when the truck is in between the isolated and the service positions (except in test position).
6. 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.
7. It shall not be possible to open the circuit breaker enclosure when the breaker is ON or to have access to any part of the draw out assembly which is live when the circuit breaker is in the service position.
8. Shutters shall be lockable in closed position.
9. Where local/remote selector switches are called for , it shall be ensured that:
 - * The breaker can be closed locally only if the breaker truck is in the test position and the local/remote selector switch is in local position.
 - * The breaker can be operated from remote panel (in shop) only when the breaker truck is in service position and the local/remote selector switch is in remote position.
 - * The breaker can be tripped locally regardless of the position of the breaker truck.

6.39 Earthing Mechanism

The operating mechanism parts shall be designed to give longer life, trouble free operation and require minimum maintenance. The material and components used shall have chopping current limited to minimum.

6.40 Insulation Levels

Insulation levels corresponding to the rated voltage shall be as follows:

Nominal voltage (kV)	3.3
Highest system voltage (kV)	3.6
One minute power frequency withstand voltage (kV)	28
1.2/50 micro sec impulse withstand voltage (kVp)	75
Clearance in air	As per IEC

6.41 Short Circuit Strength

- Rated short time withstand current shall not be less than the system short circuit level specified for the stipulated duration.
- Rated peak withstand current shall not be less than 2.5 times the system short circuit level.

6.42 Auxiliary Buses for Control & Protection

- Control supply buses for AC & DC.
- Signaling supply.
- PT secondary voltage.
- Spare buses.

6.43 Provision of surge suppressor

In case of breakers like VCB that give rise to over voltage surges due to current chopping phenomenon, surge suppressors to be provided at the load side terminals of the breakers to limit the switching surges to value limited for as per IEC.

6.44 Annunciation Schemes

- Flag indications for all faults for which individual protective relays have been specified.
- Warning signalling (as applicable) on individual panels:
 - a) All transformer warning / signalling conditions (group signal from corresponding transformer control panel / sub-station
 - b) Loss of trip circuit supply
 - c) Earth fault.
 - d) Control supply failure
 - e) PT fuse failure / MCB tripping
- Emergency signalling for tripping of HT breakers on fault
- One common signal for warning and one signal for emergency from each panel to be wired to a common annunciation panel of the switchboard, where specified.
- Annunciators for warning and emergency signalling condition on individual panels of solid state facia window type. Common audio signalling with Accept, Reset, and Test push buttons for the switchboard where common annunciation panel is not specified. Audio signalling to have distinct tones for warning and emergency.

6.45 Bus Bar and Connections

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- Power buses shall be of EC grade aluminium alloy equivalent to E91E WP as per IS-5082-1981 . Both rectangular and Round busbar are acceptable .The busbars shall be tinned /silver plated at joints.
- The continuous rating of the main horizontal bus shall not be less than the rating of the incomer specified.
- The vertical bus rating shall be as follows:-

incomer	:	Not less than that of horizontal bus
Outgoing	:	Not less than that of the outgoing breaker, irrespective of relay setting.

- Design ambient temperature shall be 50oC & final operating temperature under continuous operation in enclosure limited to 90oC. by thermometer method.
- Both horizontal and vertical bus bars to be designed and supported to withstand the thermal and dynamic stress corresponding to rated short time and peak withstand current specified.
- Cross-section of main horizontal bus to be uniform throughout the switchboard and continuous in one transport unit.
- Bus bar arrangement as per IS 375.
- Phase identification by color in each panel.
- Bus bars (horizontal as well as vertical) shall be provided with heat shrinkable, non tracking, low absorption type sleeving conforming to international standards for full voltage for 3.3kV switchboards.
- Bus bar support insulators of non-hygroscopic material having high impact and dielectric strength with an anti tracking contour.

6.46 Internal Control Wiring

- Control wiring shall be carried out by 1100V grade PVC insulated; single core multi stranded copper wire of minimum cross section 2.5 sq. mm. Similarly for CT circuits minimum cross section of 2.5 sq. mm shall be used.
- Flexible wire of 2.5 sq.mm shall be used from CT chamber to relay chamber and shall have protection against heat and mechanical damage due to flash over. Use of heatproof sleeves and rigid conduit shall be made to run the control wires from back to front.
- Wiring and terminal arrangement for all panels shall be carried out as per approved scheme.
- Flexible wires protected against mechanical damage for wiring to door mounted devices.
- Wires identified at each end in accordance with schematic diagrams by interlocked type ferrules. These shall be firmly located so that these do not move.
- Color code for control wiring

AC – Black	Earth wire – Green
b) DC – Light grey	Trip circuit – Red

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- All telemetering signals shall be wired to terminal strips
- 6.47 External Terminations**

Control Terminations

- 650V grade multi-way open type terminal blocks of non-tracking moulded plastic complete with insulated barriers, stud type terminals, washers, nuts and lock nuts and identification strips.
- All terminals going out of the switchboard shall be brought to a separate terminal board marked "External Termination". These will be easily accessible.
- External terminal block shall be provided in the relay chamber with proper clamping facilities for cable dressing.
- Control terminals shall be suitable to receive two numbers 2.5 sq. mm copper conductor.
- 20% spare terminals in each control terminal block. Terminal blocks in separate groups shall be provided for DCS/PLC, remote control panels, transformer marshalling boxes, local push button stations, etc.
- Gland plate for control cables shall be of adequate size to accommodate and to facilitate glanding of all the control cables coming from external equipment.
- Terminal blocks shall be placed separately for internal looping and external looping.

6.48 Power Terminations

- Suitable for accepting cable/bus trunking as specified.
- Sufficient space and support arrangement inside each panel to accommodate HT cable termination kits and sealing kits suitable for the size and number of XLPE cables. Dummy panels to be provided adjacent to the switch panel, where the required number cable terminations cannot be accommodated in the cabling chamber of the main panel. Rear extension not acceptable.
- Where more than one cable has to be terminated per unit, the arrangement shall permit connection and disconnection of cables separately without disturbing other cables.
- Push – ON type/Heat-shrinkable type cable end terminations / straight-through jointing kits shall be used wherever required.
- Where specified the following cable termination accessories, suitable for the type, size and number of cables to be terminated, to be supplied with switchboard.
 - ⇒ Cable sockets with all HT terminals (sockets set at such an angle that cable tails can be brought up for termination with minimum bending and setting)
 - ⇒ HT cable termination and sealing kits
 - ⇒ Power cable termination facilities shall be designed to facilitate easy approach to CTs.
 - ⇒ Double compression type brass cable glands and crimping type tinned heavy duty copper lugs for LT power and control cables.

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6.49 Protection and Measurement

Electrical Protection

Selection of protective scheme will be based mainly on reliability, sensitivity, selectivity. All main protections shall be fast acting type in order to clear the faulty system from the healthy system in earliest possible time to minimise damage to equipment and ensure continuity of power supply.

b) Protective scheme requirement

- All the main protective relays shall be microprocessor based numerical and communicable type.
- Auxiliary relays, timers switches, etc. required to make the scheme complete shall be considered as part of the scope of work.
- All CT-PT shall be suitable for the relay-meter requirement - lead burden
- All CT-PT wires shall be brought to test terminal blocks before connecting to circuits.
- The circuits of various protections (coming from other panels) shall be connected to master trip relays through auxiliary relays (flag indicated).
- VAA type auxiliary relays shall be provided for each transformer fault. Connection of the relay shall be through links to facilitate maintenance.
- Relay ranges and scale of meters shall be finalized during drawing approval stage.
- Contact arrangement, number of poles/ways in control-selector switches shall be as per the requirement/approved scheme.
- ICTs whenever considered necessary shall be included in the scope
- For control supply distribution, panel to panel separate set of terminal blocks shall be provided at top of the panel. All items / accessories required for above in each panel and in incoming panels shall be provided by the supplier.
- All relays shall be hand/self-reset type with flag indication. NO/NC contacts for relays shall be as per the requirement of approved protection, annunciation and interlock schemes. Wherever required supplier shall provide auxiliary relays for contact multiplication.
- Annunciation facia shall be mounted on Incomer switchgear panels and details shall be finalized during drawing approval stage.
- Centre line of switches, lamps, meters shall be matched to give uniform appearance and mounting height of switches shall be between 1.1 to 1.8 m.

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6.50 Current Transformer (Panel Mounted)

- Separate sets of current transformers shall be used for differential protection and separate cores shall be used for, over current protection and measurement purposes. CT's on incomer side shall be mounted before incomer breaker and CT's for outgoing feeder shall be mounted after the breaker.
- Short time ratings and insulation level of CT's shall be similar to rating of associated breaker.
- CT ratios specified are provisional. Where outputs and accuracy are not specified, these shall be such as may be required by the circuits in which they are used. Generally the protection CT's and metering CT's shall have 5P20 and 0.5 class respectively.
- CT's shall be bar/ window primary type.
- CT's shall have shorting link on secondary side to facilitate insertion of meters on secondary side without opening CT circuits.

6.51 Potential Transformers

- Fixed type bus PT shall be used for voltage metering in panel except incomer panel.
- PT located in incomer breaker panel, draw out type.
- High voltage side of PTs shall have fuses and MCCB's on low voltage side
- Low voltage star winding shall have all three phase and neutral connections brought out to terminals and one phase shall be earthed.
- Insulation levels shall be similar to rating of associated board.
- Accuracy class 1.0 shall be used.
- VA burden shall be selected based on meters and relays connected with the PT.

6.52 Relays

- Relays shall be Microprocessor based numerical and communicable type. Protocol for communication shall be IEC 61850.
- All relays shall be flush mounted in dust proof cases and shall be mounted on front side of cubicle.
- Major relays are as indicated in the specification or single line diagram.
- Master trip relay shall be hand reset and shall have 3 NO and 3 NC contacts in addition to those required by the protection/control scheme.
- All timers and protection relays shall have flag indicators.
- Relay ranges, exact type, number of aux. relays, timers shall be finalized during drawing approval stage.
- All instantaneous current protection relays shall be of 3 pole type.

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6.53 Indicating Instruments

- All indicating instruments shall conform to IS: 1248-1983 and IS - 2419-1979.
- Shall be capable of withstanding system fault current taking into account CT saturation.
- Shall be back connected.
- Shall be located in the upper part of the panel.
- Shall have 96 sq. mm square flush case, non-reflecting type, clearly divided and indelibly marked scales, sharply out lined pointers and zero adjusting device.
- The minimum scale reading shall not be more than 10%. Maximum reading shall be 150% full load for transformers panels.
- Each voltmeter shall be calibrated with coil hot. The scale shall be open between 60% to 125% of normal volts and shall be suppressed below 60% of normal volts.
- Class of accuracy shall be 1.0 or better.
- The full load reading of each ammeter shall occur at the most prominent part of the scale. The minimum scale reading shall not be more than 10%. Maximum reading shall be 150% full load for transformer panels and 600% full load for motor panels.

6.54 Control supply

- Control supply buses shall run throughout the switchgear.
- Two DC feeders shall be taken in each board controlled by MCCB's.
- In each panel for controlling of its DC supply MCCB (DC duty) shall be used. DC auto changeover and manual changeover facility shall be provided. Failure of DC supply shall be monitored in the switchboard.
- 240V AC shall be taken from station aux. board.
- Each section shall have separate feed with automatic change over scheme.
- Each panel shall have one MCB for controlling its AC supply.
- Sub circuits shall be protected with HRC fuses/ MCB in each panel for indication lamps, closing & tripping circuits.

6.55 Earthing Devices

- Either integral earthing switch or a separate earthing switch shall be provided to facilitate earthing of busbars and any feeder circuit.
- Earthing truck (if included) shall have PT and alarm provision. (Separate trucks shall be provided for feeder and bus earthing through bus PT panel in each switchboard). One no. earthing truck for feeder earthing and one no. for busbar earthing shall be provided for each board. It shall not be possible to use bus-earthing truck for feeder earthing and vice-versa.
- Rating of earthing device shall be in line with associated board.

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- Interlock provision shall be there so that incomer cannot be closed if bus-earthing device is connected.
- In case feeders are having integral earth switch, earthing trucks may not be required.

6.56 Control and Selector Switches

- Control switches for circuit breaker ON/OFF control - 3 position spring return to neutral with lost motion device and pistol grip handle.
- Other control and selector switches - stay put type with wing type knobs.
- Ammeter selector Switches- 4 position, make before break.
- Voltmeter selector switches- 7 positions as required.
- Colour : Black
- Contact Rating:

Continuous	10 amps
AC11	4 amps, 240V
DC11	0.5A, 24V, L/R- 40ms.

6.57 Push buttons

Contact Rating

Continuous	10 amps
AC11	4 amps, 240V
DC11	0.5A, 30V, L/R- 40ms.

COLOR:

ACCEPT	BLUE
RESET	BLACK
TEST	YELLOW

6.58 Control Circuit Fuses:

HRC link type confirming to IS 9224-1979.

6.59 Protective Earthing

- Continuous earth bus of minimum size 50x6 mm of copper or equivalent aluminum/galvanized steel section, designed to carry the peak short circuit and short time fault current as specified.
- Provided at the bottom extending throughout the length of the board, bolted/brazed to the frame work of each panel with an earthing terminal at each end for terminal at each end for terminating external earth conductor.
- Vertical earth bus for earthing individual functional units.
- Hinged doors earthed through flexible earthing braid.
- Looping of earth connection resulting in loss of earth connection to

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other devices when the loop is broken not permitted.

- Withdrawable units provided with self aligning, spring loaded, silver plated copper scrapping earth contacts of make before/break after type, ensuring earth continuity from service to the test position.

6.60 Test and Maintenance Equipment

Each board to be supplied with 1 set of test plugs.

6.61 Constructional Features

Mechanical Design

- Sheet steel clad, compartmentalized, floor mounted, free standing design.
- Minimum sheet steel thickness: doors and covers - 2 mm cold rolled, other load bearing members - 2.5 mm
- Doors shall be provided with lock and key arrangement
- Degree of protection shall be IP5X.
- Assembled on base channel of structural steel ISMC 75 painted black.
- Operating height shall be between 450 to 1800 mm. Switchboard height not to exceed 2500 mm.
- Earthed metallic barriers between compartments and between vertical sections.
- Seal off bushings wherever bus bars pass through metallic partition.
- Lockable front doors with concealed hinges with door not forming part of the draw-out truck.
- Panels shall be extensible on both sides.
- Removable sheet steel covers shall be provided at rear.
- Explosion vent for each chamber
- Control cables entry shall be from front side.
- CTs shall be located in such a way that that they are easily accessible.
- Panel door switch shall be provided for illumination inside the panel.
- All live parts shall be insulated by taping, supported by suitably designed insulators. Proper insulation of bus bars, upper and lower contacts of breakers and sealing of opening of bushings shall be provided to eliminate accidental contacts.
- Screw wire mesh in the power cable chamber of incoming feeder is to be provided.

6.62 APPROVED MAKES:

Sl No.	Description	Approved Makes
1.	VCB	ABB/ SIEMENS / SCHNEIDER
2.	Numerical Relay	ABB/ SIEMENS / SCHNEIDER

6.63 Supply, laying, Testing & Commissioning of HT 3C X 185 sq mm 3.3 KV Grade aluminium conductor, armoured XLPE UG Cable as per IS:7098 Part-II.

6.64 Supply, laying, Testing & Commissioning of HT 3C X 95 sq mm 3.3 KV Grade aluminium conductor, armoured XLPE UG Cable as per IS:7098 Part-II from Machinery House 3 to Impounding Pump House.

6.65 DETAILED TECHNICAL DESCRIPTION :

A) **H.T 3.3 KV, 1250A, 25 KA Vacuum Circuit Breaker (VCB) Panel:**

The HT Panel should be SCADA compatible of latest model, with basic insulation level (BIL) 95kV /38 kV and should have correspondingly phase-phase and phase-neutral clearances. Panel manufactured by OEM (original equipment manufacturer) only is acceptable. Panel offered from channel partner or franchise of OEM is not acceptable.

The VCB shall be complete with necessary interconnection with fine feruled wiring, foundation bolts, earthing, etc. The VCB shall be supplied to conform to relevant IS, amended up to date, along with manufacturers test certificate. Required no. of Danger board /Stickers of HT voltage in two languages English/Hindi is to be provided on the panel

- The switchgear shall be metal clad, floor mounted, vertical isolation & horizontally drawout type. Enclosure shall be conform to the Degree of protection IP-52 as per IEC 60529. The design shall be such that failure of one panel shall not affect the adjacent units. The switchgear panel shall be arc proof version and as per DIN VDE 0670 part 601, IEC 694/IEC -298.
- The incoming & outgoing cable shall be terminated through CBCT of suitable size and also suitable provision shall be made in the HT panel board for extension on either side for future expansions.
- Structural framework with foundation / fixing bolts, etc. at the bottom: slotted for mounting of panels directly on concrete / steel channel base.
- Envelope shall be of CRCA sheet of thickness 2 mm and cable Gland plate of 3 mm thick, removable type and split in the middle.
- Painting:** Surface cleaning by seven tank process & emulsion cleaning,

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pickling with dilute acid, washing and rinsing by water, phosphating and oven drying, one coat of zinc chromate primer, putty application, two coats of synthetic enamel.

- f) Panel doors and removable covers shall be provided with Neoprene/ EPDM - gaskets all around the edges. All doors shall have padlocking arrangements.
- g) Each cubicle shall be separated from adjacent one by sheet steel barrier and bus sealing arrangement. Bus connection from Main busbar compartment to Individual breaker compartment and cable compartment and adjacent feeders/ panels shall be through resin cast bushing assembly.
- h) Bus Cubicle doors should not get open unless associated switching devices are in OFF position. Mechanical & Electrical indications of switching devices: Mechanical indication of Spring Charged/ Discharged and Breaker ON / OFF shall be provided. Electrical indication for Service (when withdrawn, power and auxiliary circuits connected)/ Test position (when withdrawn, only auxiliary circuits connected).
- i) Mechanical & electrical safety interlock shall be provided to prevent the circuit breaker from being raked in or out of the service position when the breaker is closed.
- j) Special tool box shall provide for operation and Maintenance: Complete set [(one set) including millimeter (ENERCON make) , insulation tester (meggar make) & earth tester (meggar make)]

B) Incoming Feeder With PT:

This includes supply at site, Vacuum Circuit Breaker, suitable for 3.3KV, 25KA, 1250A, 500MVA, 3 Phase, 50 HZ effectively earthed, neutral system comprising of proper housing of breaker, safety shutters, isolating plugs and socket and VCB trolley with 3 nos. Vacuum Interrupters with safe aligning finger type, isolating contacts suitable for vertical/horizontal isolation and horizontal draw out. Necessary control Protection and metering circuits are completely assembled, wired and enclosed in a weather and dust proof cubicle.

The HT Panel shall be made of sheet steel enclosure, dust and vermin proof, suitable for indoor use. This shall be suitable to receive power at 3.3 KV, 50 Hz, 3 phase AC with all equipment fittings and accessories for efficient and trouble free operation.

- I. 3.3KV,1250A VCB The self-tripping mechanism with numerical relay with IDMT, over current, earth fault and Instantaneous protection including TVM, MFM and all others panel's indications lamps.
- II. Incoming cable entry box shall be provided for the required cable entry.
 - a) Insulation level
 - i) 1.2/50 microsecond Impulse withstand voltage 75 kV peak
 - ii) One minute power frequency withstand voltage 28 kV rms
 - b) Rated current

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- | | |
|---|------------------|
| i) Continuous | |
| -Bus bar | 1250 A |
| -Incoming/outgoing circuit breaker | 1250 A |
| ii) Short time current for 3 seconds | 25 kA rms |
| c) Circuit breaker | |
| i) Rated breaking capacity Symmetrical. | 25KA / 3 Sec. |
| ii) Rated making capacity | 62.5 KA |
| iii) Total breaking time | 7 cycles maximum |
| iv) Operating sequence | As per IS/IEC |
-
- III. Make : As per the list of makes enclosed herewith.
 - IV. Shunt trip coil : 24 V DC
 - V. Closing coil : 24 V DC
 - VI. Busbar chamber with Copper busbars, heat shrinkable PVC sleeved/ powder coated with colour code. The busbars shall be of high conductive electrolyte copper.
 - VII. 230VAC space heaters with ON-OFF switch and thermostat.
 - VIII. 1phase, resin cast with fuse unit, draw out, line connected PT ratio of $3300/\sqrt{3}/110$ $\sqrt{3}$ Volts of 100VA burden to meet with auxiliary power requirement of metering and protection. Having accuracy of 1.0/3P.
 - IX. Epoxy cast resin CTs with 15VA burden, STR of 25 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 1250-800/5-5-5A.
 - X. The Trivector meters shall be digital type of approved make and it should display Amps, Volts, KVA, KW, KWHr, KVAR, PF and MD etc. The meter shall provide with external port for remote monitoring.
 - XI. The Multi-Function Meter (MFM) shall be digital type of approved make and it should display Amps, Volts, KVA, KW, KWHr, KVAR, PF, Frequency and etc. The meter shall provide with external port for remote monitoring.
 - XII. Breaker ON-OFF LED indicating lamp.
 - XIII. Circuit trip/healthy indicating LED lamp with pushbutton.
 - XIV. Breaker spring charged LED lamp indication.
 - XV. TNC (Trip Neutral Close) switch.
 - XVI. Numerical relays consist of IDMTL + Inst 3 O/C + Inst E/F relay.
VAX – 31 Trip circuit supervision.
GAJH – 23 master trip.
 - XVII. Operating handle, spring charging handle and other required accessories shall be supplied.
 - XVIII. Cable box suitable for receiving single length of 3C x 400 Sq. mm HT XLPE cable.

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- XIX. Hand held lamps for panel internal illumination shall be provided with 240V AC source.
- XX. Hooter for tripping.
- XXI. 24V DC external supply shall be provided for control circuit of complete breaker operation.
- XXII. Type of charging: Manual as well as motorized mechanism with 230V AC operated motor.
- XXIII. Bus bar support insulator:-Non hygroscopic, track resistant, high strength insulator.(Calculation for validating dynamic force withstand capability to be submitted during drg. Approval)

C) Outgoing Feeder (Without PT):

Technical Specification same as Incoming feeder but without PT. The Numerical type relay shall be provided for all outgoing feeders.

Numerical Relay make:- SIEMENS/ABB/SCHNIDER

Epoxy cast resin CTs with 15VA burden, STR of 25 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 400-200/5-5-5A.

The necessary approval of the drawing of VCB panel shall be obtained from HDC before fabrication. Panel shall be connected with earthing as per IER.

D) Outgoing Feeder (Motor feeder):

Technical Specification same as Incoming feeder but without PT.

The Numerical type relay for motor protection shall be provided.

Numerical Relay make:- SIEMENS/ABB/SCHNIDER

Epoxy cast resin CTs with 15VA burden, STR of 25 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 400-200/5-5-5A.

The necessary approval of the drawing of VCB panel shall be obtained from HDC before fabrication. Panel shall be connected with earthing as per IER

E) Incoming Feeder (Generator feeder):

Technical Specification same as Incoming feeder with PT. The Numerical relay for generator protection shall be provided along with electromechanical relay (2 Phase Over current relay + 1Earth fault relay) for back –up protection shall be provided.

Numerical relay-SIEMENS –SIPROTEC 7UM512 or ABB –RG630 shall be provided.

Epoxy cast resin CTs with 15VA burden, STR of 25 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 400-200/5-5-5A.

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The necessary approval of the drawing of VCB panel shall be obtained from HDC before fabrication. Panel shall be connected with earthing as per IER.

6.66 INSTALLATION OF INDOOR HT VCB PANEL:

This includes installations, testing and commissioning of VCBs at 3.3KV sub-station VCB with P.T. as incomer and without PT as outgoing feeder.

All the VCB's shall be erected by using suitable size of M.S. channel foundation bolts including grouting of the bolts of each VCB panel. Each panel shall be connected with separate and distinct Earthing. After installation of VCB panel, necessary test and trial are to be carried out for proper functioning of safety, devices, relay etc. and before charging VCB all the tests required under relevant ISS and IEC – Rules 1956 shall be carried out and the result shall be in conformity with specifications and copies of test results shall be furnished to Engineer of Contract. The work includes all Labour & materials required for installation & commissioning of VCB and shall be done as directed by Engineer of Contract

Tentative lay out at Substation :-

TR-1	TR-2	SPARE	2 ND OIL JETTY	I/C-1	CASSION-1	BUS-COUPLER	CASSION-2	IMPOUNDING PUMP	TR-3	TR-4	I/C-2	SPARE
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I/C-Incomer

TR-Transformer

6.67 CABLE LAYING

1) HT CABLES LAYING INSIDE SUBSTATION IN THE TRENCHES

- The UG cables shall be laid by grouting 75 x 75 x 8 mm. L angles inside the substation trenches
- Cables should not be laid directly in the trench floor. Cables trenches should be provided with strong & effective covers with water & fire proof sealing arrangement at trench entry & exit points
- Cables of different voltages shall be laid in separate racks. Minimum distance of 250 mm shall be maintained along the routes between various

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types of cables. In case of horizontal formation, the highest voltage cables shall be laid in the top most position in the tray stack followed by other grades as follows in the descending order.

A) 3.3 KV Power cables (Top Tier)

B) 1.1 KV Power cables (Below HT Tier)

2) HT CABLE LAYING OUTSIDE THE SUBSTATIONS:

The HT cables shall be laid as per IS: 1255. The UG cable shall be laid by excavating the earth by 1.2m depth for HT cable and covered with standard size bricks on sides and PCC slab on top. For HT cable laying, a sand bed cushion of 100 mm shall be made at the bottom of the cables. HT cable route markers shall be provided once in 30 Mtrs. distance on HT cable route.

3) HT CABLE LAYINGS ACROSS THE ROADS:

HT cable laying across the roads shall be by under craving as follows:-

Mechanized Horizontal directional drilling (HDD) of all types of soil under the existing road/gate way for laying the 2 runs of 3C X 185 Sq.mm HT UG cable through **3 runs of 110mm dia HDPE pipe (one spare)** across the road including making good to the damaged soil/concrete road/asphalted road to match to the existing finish as per site requirement including providing nylon pull rope for laying the cable complete in all respects and as directed by Engineer or his representative. Necessary clearances if any from statutory authorities for crossing the road has to be taken by the contractor itself. Incidental charges if any has to be borne by the contractor itself.

Scope of works include construction of chambers at cable entry and exist point.

6.68 END TERMINATION

Supply, end termination, testing & commissioning of Heat shrinkable type end termination kits for HT 3.3 KV 3C x 400 sq mm, 3C X 240 sq mm, 3C X 150 sq mm, 3C X 120 sq mm & 3C X 95 sq mm aluminum, XLPE/PVC armoured UG cable

6.69 Earthing System

1. COPPER PLATE EARTHING

Providing earthing system for the 3.3 KV panel using 600 x 600 x 3.15 mm thick Copper flat plate buried in the earth pit of minimum size 900 x 550 x 2500 mm depth below the ground level with top edge of the plate 2M below the ground level including necessary excavation. The plate electrode shall be covered with uniformly spread alternate layers of charcoal and salt up to a thickness of 150 mm all around the plate. 25 mm dia 2500 mm long medium GI pipe to be rigidly clamped with the plate electrode using suitable clamps, bolts, nuts etc. and a GI funnel with wire mesh covering to be provided at the top of the GI pipe. Two runs of 2500 mm long 50 x 6mm thick **HHCopper strip** as specified

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in BOQ to be welded and clamped rigidly with the plate electrode on either side of the GI water pipe using suitable bolts, nuts etc. and the same to be welded and clamped with 2 X 50 X 6 mm (600 sq.mm) thick 200 mm long Copper strip kept horizontally at the top end for providing electrical continuity. Cement concrete base of minimum size 750 x 750 x 100 mm thick shall be provided using 1:2:6 CC after necessary excavation, refilling of soil, consolidating, ramming, leveling of soil etc. and providing cement concrete chamber of inside dimension 600 x 600 x 450 mm with a wall thickness of 120 mm using 1:2:6 CC above the base concrete including providing 50mm thick RCC cover. All bolts, nuts, check nuts, washers etc. after fixing shall be covered with bitumen. All details required and not mentioned above shall be conforming to **IS 3043-1987** complete in all respects and as directed.

2. EARTHING BELOW GROUND

- The main Earthing Grid shall be buried below ground unless required otherwise. For crossing any trench or under-ground pipe minimum earth coverage of 500 mm. shall be provided over the earthing conductor.
- Where the earthing conductor passes through reinforcement or steel plate it shall be bonded to the same.
- All building steels and columns shall be bonded directly to the earthing grid.
- The riser/pigtails from earthing grid shall project 600 mm. above grade/concrete level unless shown otherwise.
- All earthing conductor connections shall be made by electric arc welding or by nuts and bolts using plain washers and spring washers.
- All arc welding shall be carried out with low hydrogen content electrode.
- All welded joints shall be allowed to cool down gradually to atmospheric temperature before putting any load on it. No artificial cooling should be adopted to cool welded joints.
- The welding required for earthing shall serve the following three purposes sufficient mechanical strength between the jointing materials
- Earthing shall be mechanically robust and all joints shall be capable of retaining low resistance even after passages of many fault current.
- All the connections are to be made carefully and properly. Improper/poor connections are to be remade at the cost of Contractor.
- Welded areas of risers/pigtail shall be thickly coated with bitumen compound to prevent corrosion.
- Earthing pits/conductors shall be laid in field to avoid fouling with concrete foundations and in consultation with the Employer at site.

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- The successful Contractor shall submit detailed working drawings of earthing grid for approval by HDC, KoPT prior to construction of the grounding system.
- The rate quoted shall be inclusive of cost of all materials, labour required for excavation, backfilling, welding, cutting, bending, placing of GI strips etc. complete as per specification.
- All tests as per relevant standards shall be conducted to certify the effectiveness and other requirements of the earthing grid.
- Depth of laying of earth conductor for earth grid, ring and inter - connections shall generally be min. 500 mm from ground level and 300 mm below all foundations.
- Erection of earth pits shall include making of masonry enclosure and supply of chemical and other materials.

3. EARTHING ABOVE GROUND

- The successful Contractor shall lay the above ground earthing conductors inside the buildings and on various structures for connection to various equipment/ drives etc. These earthing conductors may be installed within the cable trays in the form of runway conductors. The connection to equipment shall be tapped from these runway conductors at suitable locations. One runway Conductor shall be provided for each side of cable trench/tray.
- The neutral points of all earthed system of different voltages, all equipment frame works, other non-current carrying metallic structures and equipment's shall be earthed by a minimum of two Separate and distinct connections.
- Armour of all power and control cables shall be earthed at both ends through gland earth ring provided with the cable glands.
- All cable trays and supporting structure are to be earthed. All cable tray sections shall be bonded with each other for continuity.
- All earth leads and riser connections shall be as short as possible.
- Neutral connection shall not be used for equipment earthing.
- All connections to earth conductors shall be welded/bolted type. Earthing connections to all equipment shall be bolted type.
- All joints in earthing conductor shall be welded type. All joints shall be welded with an overlap of 65 mm. Joints shall be thoroughly cleaned before welding. Welding is to be done around joint completely. All joints shall be given two coats of anti-corrosive paint (Red Oxide) to a thickness of 3-5 micron, followed by a coat of bitumen paint. Joints shall be thoroughly cleaned before applying

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paints.

- All nuts, bolts washers etc. shall be cadmium plated or zinc passivated. Generally, earthing studs and terminals shall be provided on all equipment. In such cases, where it is not provided the Contractor shall have to drill and tap the equipment for deriving earth terminals.
- Connections of earthing conductors to the main earthing loops or to equipment shall generally be made by means of cable lugs in case of round conductors, solid or stranded and directly in case of strips. Devices like spring washers and lock washers must be used to ensure that the connections are vibration proof.
- Minimum Electrode size shall be as per the latest amendments of IS: 3043. Earth electrodes / plates for body earth transformer neutral earthing and lightning earth pits shall be selected as per the latest amendments / requirements of IS : 3043.
- In all cases the pipes shall be driven such that their zones of earthing do not overlap. Each earth electrode shall be connected to its associated ear th tape through a linked connection. The link shall be installed as close to the earth electrode as possible. Each earth electrode shall be enclosed together with the link in a reinforced concrete hand -hole with cast iron cover, which shall be set flush with the ground.

6.70 Safety Equipments For Substations

Fire sand buckets with stand, fire extinguishers of CO₂ gas and dry chemical powder, first aid chart for electric shock, first aid kit and 11 kV hand gloves in adequate quantity and as per CEA norms in all machine house and sub station.

6.71 SHUTDOWN :

The Contractor should take all possible steps to complete the work in most of places without any shutdown. However, If any shutdown is at all required in some places then shutdown of one hour may be provided at a stretch maximum on four occasions during the entire execution period. In such a case before taking any shutdown, prior approval have to taken from the Engineer of contract or his authorized representative(s).

6.72 INSPECTION AND TESTING.

Equipment will be duly inspected in the manufacturer's works / premises by TPI before dispatch to the site. Cost of TPI will be borne Inspection of the items to be supplied by the contractor will be carried contractor.

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The Engineer of the Contract reserves the right to waive inspection at Manufacturer's premises (witnessing tests) and to inspect (physically) the materials at site, after delivery, against Manufacturer's Internal Test Certificate.

The job of installation and commissioning will be inspected by the representative of Engineer of Contract in different stages and also after completion of the job. For this, the contractor shall have to submit a Field Quality Assurance Plan (FQAP), which will be subsequently approved by the Engineer and the inspection will be carried out in accordance with the approved FQAP.

Inspection and Testing by the representative of Engineer of Contract shall not relieve the successful bidder of their obligation for supplying the items and execution of the entire work in accordance with the Contract Condition and relevant Acts, Rules and Codes of Practice

- **Vacuum Circuit Breaker Panel**

- a) **Vacuum Circuit Breaker units :**

Routine Tests (as per IS:13118) will be witnessed by the TPI or the representative of Engineer of Contract at Manufacturer's works before despatch.

Manufacturer's Certificate for Type Test (as per IS:13118), for similar type equipments, should be made available to the TPI or the representative of Engineer of Contract) during the above inspection.

- b) **Current Transformers:**

Following tests will be witnessed by the TPI or the representative of Sr. Dy. Manager(P&E) at Manufacturer's works before despatch :-

- i) **Routine Tests** as per IS:2705.
 - ii) **Verification of Terminal Markings and Polarity** as per IS:2705

Manufacturer's Certificate for Type Test (as per IS:2705), for similar type equipments, should be made available to the TPI or the representative of Engineer of Contract during the above inspection.

- c) **Potential Transformer:**

Following tests will be witnessed by the TPI or the representative of Engineer of Contract at Manufacturer's works before despatch :

- a) Routine Tests as per IS:3156
 - b) Verification of Terminal Markings and Polarity as per IS:3156

Manufacturer's Certificate for Type Test (as per IS:3156), for similar type equipments, should be made available to the TPI or the representative of

Engineer of Contract during the above inspection.

d) Complete VCB Panel:

Inspection will be carried out by the TPI or the representative of Engineer of Contract before despatch. Manufacturers' Test Certificates for the components like **Relays, Ammeter, Voltmeter, Static KWH Meter & Maximum Demand Meter**, should be made available to the TPI or the representative of Engineer of Contract during the above inspection.

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SECTION VII

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General Conditions of Contract (GCC)

A. GENERAL PROVISIONS

7.1 Definitions

In the conditions of contract (“these conditions”), which includes particular conditions and these general conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

7.1.1 The Contract:

- a) **“Contract”** means and includes these **bidding documents** in entirety (**including** all Addenda and Corrigenda, if any), the **specification**, the **drawings**, the **PRICE SCHEDULE**, the **bid / offer**, the **Letter Of Acceptance**, the **Contract Agreement** (when Contract Agreement would be completed in all respect) and such further documents as may be expressly incorporated in the **Letter Of Acceptance** or **Contract Agreement** (when Contract Agreement would be completed in all respect).
- b) **“Contract Agreement”** means the executed Contract Agreement referred to in **ITB Clause No. 5.37 [Signing of Contract Agreement]**.
- c) **“Contract documents”** means the documents listed in the Contract Agreement, including any amendments thereto.
- d) **“Letter Of Acceptance (LOA)”** or **“Work order”** or **“Order letter”** means the formal acceptance of the bid (and placement of order with the successful bidder), issued by or on behalf of the Employer, including any adjustments or variation to the bid agreed between the Employer and the successful bidder and includes its enclosure(s), annexure(s), etc., if any.
- e) **“Specification”** means the specification of the work included in the contract and any modification thereof or addition thereto made under **GCC Clause No. 7.12 [Additions and alterations]** or submitted by the Contractor and approved by the Engineer, in writing.
- f) **“Drawings”** means **all drawings, calculations and technical information**, etc., provided by the Engineer to the Contractor under the contract and all **drawings, calculations, samples, patterns, models**, etc., including modification, if any, and other **technical information & manuals** of a like nature, submitted by the Contractor and approved by the Engineer.
- g) **“Tender”** or **“Bid”** means the proposal (priced offer), along with all supporting documents, submitted by the bidder to the Employer for consideration.

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- h) **“Price Schedule”** means the priced schedule of items, forming part of the bid.
- i) **“Tenderer”** or **“Bidder”** means the individual firm, who submits the bid, duly filled up and signed, along with all the required documents and payment instruments, in strict compliance of the conditions / requirements stipulated in these bidding documents.
- j) **“Contract data”** means the pages completed by the Employer entitled **CONTRACT DATA**.

7.1.2 Parties and persons :

- a) **“Party”** means the **Employer** or the **Contractor**, as the context requires.
- b) **“Employer”** or **“Board”** or **“Trustees”** or **“Kolkata Port Trust”** or **“KoPT”** means the Board of Trustees for the Port of Kolkata (Calcutta), a body corporate under **Section 3 of the Major Port Trusts Act, 1963** (as amended from time to time), including their successors, representatives and assigns.
- c) **“Contractor”** or **“Successful bidder”** or **“Successful tenderer”** means the person or persons, firm or company, whose bid / offer has been accepted by the Employer and is named as such in the Contract Agreement or his representative(s), who is/are duly authorised to deal the contract.
- d) **“Contractor’s representative”** means the person(s) named by the Contractor in the contract or appointed from time to time by the Contractor, under **GCC Clause No. 7.21 [Contractor’s personnel and Contractor’s representative]**, who acts on behalf of the Contractor.
- e) **“Sub-contractor”** shall mean a person or persons, firm or company to whom a part of the work has been sub-contracted by the Contractor, with prior consent of the Employer.
- f) **“Contractor’s personnel”** means the Contractor’s representative and all personnel whom the Contractor utilises on site, who may include staff, labour and other employees of the Contractor and of each Sub-contractor, and any other personnel assisting the Contractor in the execution of the work.
- g) **“Engineer”** means the person appointed by the Employer to act as the Engineer for the purposes of the contract and named in the **Contract data**, or other person appointed from time to time by the Employer and notified to the Contractor under **GCC Clause No. 7.18 [Replacement of the Engineer]**.
- h) **“Engineer’s Representative”** means any sub-ordinate Engineer or assistant to the Engineer or any other official appointed from time to time by the Engineer to perform the duties set forth in **GCC Clause Nos. 7.13 to 7.15** hereof.

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- i) **“Engineer-in-charge”** means employee of KoPT, authorised by the Engineer to look after the physical execution of the contract, at site level.
- j) **“Haldia Dock Complex”** or **“HDC”** means a Dock Complex situated at Haldia, under **Kolkata Port Trust**.
- k) **“Chairman”** means the Chairman of the Board of Trustees for the Port of Kolkata (Kolkata Port Trust) and includes the person appointed to act in his place under Sections 14 and 14A of the Major Port Trusts Act, 1963.
- l) **“Deputy Chairman”** means the Deputy Chairman, Haldia Dock Complex and includes the person appointed to act in his place.
- m) **“General Manager (Engineering)”** means the Officer appointed to take charge of Plant & Equipment Division, Infrastructure & Civic Facilities Division and Materials Management Division of HDC, under the supervision of the Deputy Chairman, HDC.
- n) **“Senior Deputy Manager (P&E)”** or **“Deputy Manager (P&E)”** means the Officer of Plant & Equipment Division of HDC, reporting to the General Manager (Engineering).

7.1.3 Dates and periods:

- a) **“Completion period”** means the time of completion/period of execution notified under 7.65 [Completion period].
- b) **“Month”**, for the purpose of this contract, shall mean the period starting from the date of commencement in any month to the previous date of the following month, as per English Calendar.
- c) **“Week”**, for the purpose of this contract, shall mean any period of 7 (seven) consecutive English Calendar Days.
- e) **“Day”**, for the purpose of this contract, means English Calendar Day.

7.1.4 Money and payments:

- a) **“Contract price”** or **“Contract value”** means the sum named in the **“Letter of Acceptance (LOA)”** [excluding GST] of the bid /offer of the Contractor, subject to such additions thereto and deductions therefrom, as may be made by the Engineer, under the provisions contained in this bidding document.
- b) **“Cost”** means all expenditure reasonably incurred (or to be incurred), by the Contractor, whether on or off the site, including overhead and similar charges, but does not include profit.
- c) **“Foreign Currency”** means the currency other than Indian Currency.

7.1.5 Work:

- a) **“Work”** means the work to be executed in accordance with the contract and includes authorised **“Extra work”**, **“Excess work”** and **“Temporary work”**.

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- b) **“Temporary work”** means all temporary work of every kind required in or about the execution, completion or maintenance of the work and includes (without thereby limiting the foregoing definitions) all temporary erections, scaffolding, ladders, timbering soaking vats, site offices, cement and other godowns, platforms and bins for stacking building materials, gantries, temporary tracks and roads, temporary culverts and mixing platforms.
- c) **“Excess work”** means the required quantities of work, in excess of the provision made in the contract, against any item of the **“Price Schedule”**.
- d) **“Extra work”** means those work, required by the Engineer for completion of the contract, which were not specifically and separately included in the schedule of items of the work (i.e. **“Price Schedule”**) of the bidding document.
- e) **“Related Services”** means the services incidental to the supply of goods / contract job, such as insurance, installation, training, initial maintenance and other obligations of the Contractor, under the contract.

7.1.6 Other definitions

- a) **“Constructional plant”** means all appliances or things, of whatsoever nature, required in or about the execution, completion or maintenance of the work or temporary work and includes (without thereby limiting the foregoing definition) all machinery and tools, but does not include materials or other things intended to form or forming part of the permanent work.
- b) **“Site”** means the land and other places, on, under, in or through which the contract is to be executed or carried out and any other lands or places provided by the Employer for the purpose of the contract.
- c) **“Excepted Risks”** means riot, in so far as it is uninsurable, war, invasion, act of foreign enemies, hostilities (whether war be declared or not), Civil War, rebellion, revolution, insurrection or military or usurped power or use or occupation by the Trustees of any portion of the works in respect of which a certificate of completion has been issued (all of which are herein collectively referred to as the excepted risks).
- d) **“Approved / approval”** means approval in writing.
- e) **“Test on Completion”** means such tests, prescribed by the applicable Design Standard, codes and described in the bidding document, to be performed by the Contractor before the equipment / items / installations are supplied, delivered and taken over by the Employer.
- f) **“Defect Liability Period (DLP)”** means the period defined in the **GCC Clause No. 7.67**.
- g) **“Force Majeure”** is defined in **GCC Clause No. 7.86 [Definition of**

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Force Majeure].

7.2 Contract documents

- 7.2.1 The several documents forming the contract are to be taken as mutually explanatory of one another and should anything appear in one, which is not described in the other, no advantage shall be taken of any such omission.
- 7.2.2 In case, any discrepancies or inconsistencies however appear or should any misunderstandings arise as to the meaning and of the specifications or drawings or as to the dimensions or the quality of the materials or the due and proper execution of the work or as to the measurement or quality and valuation of the work executed under this contract or as extra thereupon, the same shall be explained by the Engineer or his authorised representative.
- 7.2.3 The explanation of Engineer or his authorised representative shall be final and binding upon the Contractor and the Contractor shall execute the work according to such explanations, and without extra charge or deductions and do all such work and things as may be necessary for the proper execution of the contract as implied by the specification and drawings, even though such work and things are not specifically shown and described therein.

7.3 Interpretations

- 7.3.1 In the contract, except where the context requires otherwise:
 - a) words indicating one gender include all genders;
 - b) words indicating the singular also include the plural and words indicating the plural also include the singular;
 - c) provisions including the word “agree”, “agreed” or “agreement” require the agreement to be recorded in writing;
 - d) **“written”** or **“in writing”** means hand-written (manuscript), type-written, printed or Electronically made, and resulting in a permanent record, under or over signature and seal, as the case may be;
and
 - e) the word “tender” is synonymous with “bid”, and “tenderer” with “bidder” and the words “tender documents” with “bidding documents”.

7.4 All Drawings are Trustees’ property

- 7.4.1 The Drawings, referred to in the Special Conditions of Contract / Technical Specification / Price Schedule, if and as applicable, shall be furnished by the Engineer to the Contractor, free of cost, for his use on the work, but these shall remain the property of the Trustees and hence, the Contractor shall return them to the Engineer or his Representative on completion of the work, if not torn or mutilated on being regularly used at site.

7.5 Language

- 7.5.1 The contract as well as all correspondence and documents relating to the contract, exchanged between the Contractor and the Employer/Engineer,

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shall be written in **English Language only**. If any documents/manuals/printed literature/drawings is submitted by the Contractor in other language(s), the same should be accompanied by an accurate translation of the relevant pages in the English language. In that case, for the purposes of interpretation of the contract, such translation shall govern.

- 7.5.2 The Contractor shall have to bear all costs of translation to the English Language and all risk of the accuracy of such translation, for documents provided by the Contractor.

7.6 Notices

- 7.6.1 Any notice, given by one party to the other, pursuant to the contract, shall be in writing, to the address specified in the **Contract data**. The term “in writing” means communicated in written form, with proof of receipt.
- 7.6.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.

7.7 Governing Law

- 7.7.1 The contract shall be governed by and interpreted in accordance with the relevant Indian Acts [considering latest amendment thereof], as applicable, within the jurisdiction of the Honourable High Court of Kolkata [Calcutta High Court] , India, including the following Acts:
- i) The Indian Contract Act, 1872.
 - ii) The Major Port Trust Act, 1963.
 - iii) The Workmen’s Compensation Act, 1923.
 - iv) The Minimum Wages Act, 1948.
 - v) The Payment of Wages Act, 1936.
 - vi) The Payment of Bonus Act, 1965.
 - vii) The Payment of Gratuity Act, 1972.
 - viii) The Equal Remuneration Act, 1976.
 - ix) The Employees Provident Fund Act, 1952.
 - x) The Employees State Insurance Act, 1948 & The Employees State Insurance (Amendment) Act, 1989.
 - xi) The Contract Labour (Regulation & Abolition) Act, 1970; Rules 1971.
 - xii) Child Labour (Prohibition & Regulation) Act, 1986.
 - xiii) The Maternity Benefits Act, 1961.
 - xiv) Interstate Migrant Workmen (Regulation of Employment & Conditions of Service) Act, 1979.
 - xv) The Dock Workers (Regulation of Employment) Act, 1948.

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xvi) The Dock Workers (Safety, Health & Welfare) Act, 1986.

xvii) The Indian Arbitration and Conciliation Act, 1996 [considering its latest amendment in 2015].

7.7.2 Unless otherwise specified, all the laws / rules / acts, etc., mentioned in different clauses of this bidding document, should be considered as laws / rules / acts, etc. applicable in India.

7.7.3 The Contractor shall indemnify KoPT for any proceeding taken or commenced by any authority against the Employer for any contravention of any of such laws, bye laws, rules, regulations, orders, etc., by the Contractor or their personnel / workmen / agent / supplier, etc. If, as a result of the Contractor's failure, negligence, omission, default or non-observance of any provisions of any law, bye law, rule, regulation, order, etc., the Employer is called upon by any authority to pay or reimburse or is required to pay or reimburse any amount, the Employer shall be entitled to deduct the same from any amount due or that may become due to the Contractor under this contract or any other contract or by any other means or may otherwise recover from the Contractor any sum which KoPT is required or called upon to pay or reimburse on behalf of the Contractor.

7.7.4 The Contractor shall indemnify KoPT for any proceeding taken or commenced by any authority against the Employer for any contravention of any of such laws, bye laws, rules, regulations, orders, etc., by the Contractor or their personnel/workmen/agent/supplier, etc. If, as a result of the Contractor's failure, negligence, omission, default or non-observance of any provisions of any law, bye law, rule, regulation, order, etc., the Employer is called upon by any authority to pay or reimburse or is required to pay or reimburse any amount, the Employer shall be entitled to deduct the same from any amount due or that may become due to the Contractor under this contract or any other contract or by any other means or may otherwise recover from the Contractor any sum which KoPT is required or called upon to pay or reimburse on behalf of the Contractor.

7.8 Patent Rights

7.8.1 The Contractor shall fully indemnify KoPT against any action, claim or demand, costs or expenses arising from or incurred by reason of any infringement or alleged infringements of letters, patents, design, trademark or name, copyright or other protected rights in respect of any machine, plant, work, materials or things, system or methods of using, fixing working or arrangement used for fixed or supplied by the Contractor in India, or elsewhere.

7.8.2 All payments, or otherwise shall be deemed to be included by the Contractor in the prices named in the bid and shall be paid by them to whom they may be payable.

7.8.3 In the event of any claim being made or action brought against KoPT in respect of any such matter as aforesaid, the Contractor shall be immediately notified thereof and they shall with the assistance, if they so require, of KoPT but at the sole expense of the Contractor conduct all negotiations for

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the settlement of the same or any litigation that may arise there from, provided that the conduct of such negotiations or litigations shall be conditional upon the Contractor giving to KoPT such security, as shall from time to time, by reasonably required by KoPT to recover the ascertained or agreed amount, as the case may be, of any compensation, damages, expenses and cost, which might be payable by the Trustees in respect of or as a result of any such negotiation or litigation.

7.9 **Stamp duty & other expenses**

- 7.9.1 All the costs, charges and expenses to be incurred in connection with **Contract Agreement, Indemnity Bond, Bank Guarantees, Integrity Pact**, etc., including stamp duty, shall be borne by the Contractor.

7.10 **Indemnity**

- 7.10.1 Notwithstanding that all reasonable and proper precautions may have been taken by the Contractor, at all times during the progress of the work, the Contractor shall, nevertheless, be wholly responsible for all damages, whether to the works themselves or to any other property of KoPT or to the lives, persons, property of others during the progress of the work.
- 7.10.2 In case any damage occurs to the existing structure due to the Contractor's operation, the same shall be made good by the Contractor, at their own risk and cost. The areas, which are likely to be unsafe for use, shall be barricaded and all necessary precautionary measures, like displaying notices, shall be taken by the Contractor, during the contract period.
- 7.10.3 In case any material, spare parts, components, sub-assemblies, accessories, etc., related to the work (under the scope of the Contractor), is required to be taken out of the Dock premises by the Contractor, for some specialised servicing, repairs, overhauling, etc. or for any other reason whatsoever, the Contractor shall have to obtain permission from the Employer. For this the Contractor shall have to submit an “**Indemnity Bond**” [in the form furnished in **Section-XI**].

7.11 **Employer's lien**

- 7.11.1 All constructional plant, temporary work and materials, when brought to the site by the Contractor, shall be deemed to be the property of the Employer, who will have lien on the same, until the satisfactory completion of the work and shall only be removed from the site, in part or in full, with the written permission of the Engineer or his Representative.
- 7.11.2 The Employer shall have a lien on and over all or any money that may become due and payable to the Contractor under this contract or any other contract or from any amount lying with them or under their control and in respect of any debt or sum that may become due and payable by the Employer to the Contractor, either alone or jointly with another or other and either under this contract or under any other contracts or transaction of any nature whatsoever between the Employer and the Contractor.

7.12 **Additions and alterations**

- 7.12.1 KoPT shall have power and authority, from time to time and at all times, to make amendments or additions or alterations or changes in the **Technical**

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Specification and give such further instructions and directions, as may appear necessary and proper to KoPT for the guidance of the Contractor and good & efficient execution of the work.

7.12.2 The Contractor shall receive, obey and be bound by the same, according to the true intent and meaning thereof, as if the same had been mentioned or referred to in the **Technical Specification**.

7.12.3 KoPT may also vary or alter the levels or positions of any of the work contemplated by approved specification or may order any of the work contemplated thereby to be omitted, with or without substitution of any other works in lieu thereof, or may order any work or any portion of works executed or partially executed, to be removed, changed or altered, if required.

In this connection, KoPT may increase or decrease or split the quantity of work included in the contract or execute additional work of any kind necessary for good & efficient execution of the work.

7.12.4 The Engineer shall have the power to order for the above amendments (additions/alterations/changes, etc.) and any difference in the cost occasioned by any such diminution or alteration so ordered and directed shall be added to or deducted from the amount accepted under the contract based on the rate(s) available in the contract. Where the rate(s) is/are not available in the contract, such difference in the cost shall be determined by the Engineer, taking into account the market rate and labour cost at site for similar work, backed up by rate analysis, (to be submitted by the Contractor and agreed upon between the Contractor and KoPT).

In the event of disagreement, KoPT shall fix such rates or prices as shall, in their opinion, be reasonable and proper having regard to the circumstances.

B. THE ENGINEER

7.13 Instructions of the Engineer or Engineer's Representative

7.13.1 The Contractor shall execute, complete and maintain the works in terms of the contract to the entire satisfaction of the Engineer and shall comply with the Engineer's direction on any matter whatsoever. However, the Engineer shall exercise his discretion impartially, within the terms of the contract and have regard to all the circumstances.

The Contractor shall take instructions from the Engineer and subject to limitation indicated in **GCC Clause No. 7.16.1** hereof, from the Engineer's Representative.

7.14 Engineer's power and authority

7.14.1 The Engineer shall have full power and authority:

- a) to supply to the Contractor, from time to time, during the progress of the works, such further drawings and instructions as shall be necessary for the purpose of proper and adequate execution and maintenance of the works and the Contractor shall carry out and be

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bound by the same.

- b) to alter or modify the specification of any material and workmanship and to inspect the work at any time.
- c) to order for any variation, alteration and modification of the work and for extra works.
- d) to issue certificates as per contract.
- e) to settle the claims & disputes of the Contractor.
- f) to grant extension of completion time.

7.15 Power of Engineer's Representative

7.15.1 The Engineer's Representative shall:

- a) watch and supervise the work.
- b) test and examine any material to be used or workmanship employed in connection with the work.
- c) have power to disapprove any material and workmanship not in accordance with the contract and the Contractor shall comply with his direction in this regard.
- d) take measurements of work done by the Contractor for the purpose of payment or otherwise.
- e) order demolition of defectively done work for its reconstruction all by the Contractor at his own expense
- f) have powers to issue alteration order not implying modification of design and extension of completion time of the work.
and
- g) have such other powers and authorities vested in the Engineer, which have been delegated to him, in writing, by the Engineer under intimation to the Contractor.

7.16 Limitation of Engineer's Representative's power

7.16.1 Provided always that the Engineer's Representative shall have no power:

- a) to order any work involving delay or any extra payment by the Trustees,
- b) to make variation of or in the work,
and
- c) to relieve the Contractor of any of his duties or obligations under the contract.

7.17 Engineer's over-riding power

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7.17.1 Provided also as follows:

- a) Failure of Engineer's Representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or materials and to order the pulling down, removal, breaking-up thereof and re-constructing at the Contractor's cost and the Contractor shall have no claim to compensation for the loss sustained by them.
- b) If the Contractor shall be dissatisfied by reason of any decision of the Engineer's Representative, they shall be entitled to refer the matter to the Engineer, who shall thereupon confirm, reverse or vary such decision which will be final, conclusive and binding on the parties.
- c) Any written instructions or written approval given by the Engineer's Representative to the Contractor, within the terms of delegation of power and authority vested in the Engineer to his representative, in writing, shall bind the Contractor and the Trustees as though it had been given by the Engineer, who may, from time to time, make such delegation.

7.18 Replacement of the Engineer

7.18.1 If the Employer intends to replace the Engineer, the Employer shall give notice to the Contractor in this respect.

7.19 Determinations

7.19.1 Whenever these conditions provide that the Engineer shall proceed, in accordance with this clause, to agree or determine any matter, the Engineer shall consult with each party, in an endeavour to reach agreement. If agreement is not achieved, the Engineer shall make a fair determination, in accordance with the contract, taking due regard of all relevant circumstances.

The Engineer shall give notice to both parties of each agreement or determination, with supporting particulars **within 28 (twenty-eight) days** from the receipt of the corresponding claim or request, except when otherwise specified. Each party shall give effect to each agreement or determination, unless and until revised under **GCC Clause Nos. 7.94 to 7.98 [Claims, Disputes and Arbitration]**.

C. THE CONTRACTOR

7.20 Performance Guarantee / Security Deposit

- 7.20.1 As specified in the **SCC**, the Contractor shall have to provide **Performance Guarantee / Security Deposit** towards guaranteeing the performance of the Contractor in execution of the contract.
- 7.20.2 The **Performance Bank Guarantee(s)** shall be denominated in the currency(ies) of payment in the contract, and shall be in the form furnished in **Section-XI**.
- 7.20.3 The original Bank Guarantee should be sent by the issuing Branch of the

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Bank, directly to the Employer, under Registered Post (A.D), at the following address:

General Manager (Finance),
Haldia Dock Complex (HDC),
Jawahar Tower Complex,
P.O: Haldia Township,
Dist.: Purba Medinipur,
PIN – 721 607,
West Bengal, India.

A photocopy of the Bank Guarantee should also be sent to the Engineer, by the Contractor, for record.

The General Manager (Finance), HDC may require Bank's confirmation for having issued the Guarantee. In that case, the issuing Branch of the Bank should send a confirmation letter, directly to the Employer, under Registered Post (A.D), at the above address.

- 7.20.4 Failure of the Contractor to submit the required Performance Bank Guarantee, as mentioned in **GCC Clause No. 7.20.1** and in the manner stated in the **SCC**, shall constitute sufficient grounds for termination of the contract and forfeiting the Earnest Money Deposit.
- 7.20.5 The proceeds of **Performance Guarantee / Security Deposit** shall be payable to the Employer, as compensation, for any loss resulting from the Contractor's failure to complete its obligations under the contract.
- 7.20.6 **Performance Guarantee/Security Deposit** shall be liable to be forfeited, at the option of the Employer, if the Contractor fails to carry out the work or to perform / observe any of the conditions of the contract.
- 7.20.7 The Employer shall be at liberty to deduct/recover any of their dues from **Security Deposit/Performance Guarantee**.
- In that case, if **Security Deposit / Performance Guarantee** is reduced by reason of any such deduction or encashment, the Contractor shall have to, **within 15 (fifteen) days thereafter**, make good the amount so reduced.
- 7.20.8 The cost of obtaining **Performance Bank Guarantee** or any other Bank Guarantee and / or revalidation thereof, whenever required, has to be borne by the Contractor and it shall be their sole responsibility to arrange for timely revalidation of such Bank Guarantee, failing which and for non-fulfilment of any contractual obligation by the Contractor, the Engineer and/or the Employer shall be at liberty to raise claim / demand under Performance Guarantee and/or enforce the same unilaterally.
- No interest/charge, of whatsoever nature, shall be paid by the Employer on the amount of **Security Deposit / Performance Guarantee** held by the Employer, at any stage.
- 7.20.9 On completion of execution of the work, the Contractor shall maintain the same during the "**Defect Liability Period**", as specified in **GCC Clause No. 7.67**, from the date mentioned in the "**Certificate of Completion of Work**" [as per the form furnished in **Section-XI**]. Any defect / fault, which may appear in the work during the aforesaid maintenance period, arising, in the sole opinion of the Engineer or his Representative, from materials or

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workmanship not in accordance with the contract or the instruction of the Engineer or his Representative, shall, upon the written notice of the Engineer or his Representative, be amended and made good by the Contractor, at his own cost, within 7 (seven) days of the date of such notice, to the satisfaction of the Engineer or his Representative, failing which, the Engineer or his Representative shall have the defects amended and made good through other agency at the Contractor's risk and cost and all expenses, consequent thereon or incidental thereto, shall be recoverable from the Contractor in any manner deemed suitable by the Engineer.

7.20.10 The contract shall not be considered completed and the work shall not be treated as finally accepted by the Trustees, until a "**Certificate of Final Completion**" [as per the form furnished in **Section-XI**] shall have been signed and issued by the Engineer, after all obligations under the contract, including that in the Defect Liability Period (DLP), if any, have been fulfilled by the Contractor. Previous entry on the works or taking possession, working or using thereof by the Trustees shall not relieve the Contractor of his obligations under the contract for full and final completion of the work.

7.20.11 Refund of **Performance Guarantee / Security Deposit** would be guided by the procedure detailed in the **SCC**.

7.21 **Contractor's personnel and Contractor's representative**

7.21.1 The Contractor's personnel shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Engineer may require the Contractor to remove (or cause to be removed) any person employed on the site of work, including the Contractor's representative, if applicable, who:

- a) persists in any misconduct or lack of care,
- b) carries out duties incompetently or negligently,
- c) fails to conform with any provisions of the contract, or
- d) persists in any conduct, which is prejudicial to safety, health or protection of the environment.

If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

7.21.2 The Contractor shall have to communicate the names of their officials/representatives, authorized by them through **Power of Attorney** (specimen signature of such authorized representative should be attested), to make all correspondences and sign all documents/papers in relation to this contract.

Written orders or instructions, which the Employer may issue to such authorized officials/ representatives of the Contractor, shall be deemed to have been given to the Contractor.

7.21.3 In case any of such authorised persons fails to act as Contractor's representative, the Contractor shall similarly communicate the name and particulars of another suitable person for such authorization.

The Contractor shall have to notify the Engineer, immediately after revoking

the appointment of the Contractor's representative and appointment of a replacement.

- 7.21.4 If any of the Contractor's representatives/officials is required to be temporarily replaced during the period of contract, the name of the person temporarily authorised [by any one of the authorised officials/representatives, authorized earlier through **Power of Attorney**], shall have to be notified. Specimen signature of such temporarily authorised representative(s) should be attested [by the said authorised official/representative].

7.22 Assignment and sub-contracting

- 7.22.1 The Contractor shall not, directly or indirectly, transfer, assign, sublet or sub-contract the whole of the work.

Unless otherwise stated in the contract, the Contractor shall not, directly or indirectly, transfer, assign, sublet or sub-contract any part of the work without prior consent of the Engineer. Any such consent shall not relieve the Contractor from any of their liabilities or obligations under the contract and they shall be responsible for :

- a) the acts, defaults and neglect of any Sub-contractor, their agents, servants or workmen as fully as if these were the acts, defaults or neglects of the Contractor, their agents, servants or workmen,
- b) their full and entire responsibility of the contract and active superintendence of the work by them despite being sublet.

Provided that the Contractor shall not be required to obtain such permission for:

- i) the provision of labour engaged on piece-work basis/daily rate basis,
 - ii) the purchase of materials/services which are in accordance with the standards specified in the contract,
- or
- iii) the sub-contracting of any part of the work, for which the Sub-contractor is named in the contract.

The Contractor shall be responsible for observance, by all Sub-contractors, of labour laws applicable in India (for the portion of work that would be executed in India) and all other provisions of the contract.

- 7.22.2 No **participating bidder** [in connection with the instant tender] will be allowed to act as a **Sub-contractor** of the successful bidder (Contractor).
- 7.22.3 In the event of the Contractor contravening aforesaid condition [**GCC Clause No. 7.22.2**], the Employer shall be entitled to terminate the contract forthwith and award a fresh contract to some other parties at **risk and cost of the Contractor**, who shall be liable for any loss or damage, which KoPT may sustain in consequence to arising out of such replacement of the

Contractor.

- 7.22.4 The Contractor shall not assign their right and interest in these presents nor assume a fresh partner or partners, dissolve the partnership existing between them in reference to this contract, without the prior written permission of the Employer.

7.23 Access to site

- 7.23.1 The Contractor shall have to abide by the **rules and regulations of Kolkata Port Trust (KoPT)** in respect of entry / exit and movement in the dock premises.
- 7.23.2 Necessary **Gate Pass / Dock Entry Permit**, for entering into the Dock area, will be issued to the personnel of the Contractor [including that of approved Sub-contractor(s)] directly connected with the work, **on chargeable basis** [as per the extant “**Scale of Rates**” of KoPT, available at <http://www.kolkataporttrust.gov.in/> of Kolkata Port Trust], on receipt of a formal written request.

However, for issuing such Gate Pass, the following would be required:

- i) **For Indian nationals:** A photocopy of the Voter’s Identity Card/any other Photo Identity Card.
- ii) **For foreign nationals (excluding from Nepal and Bhutan):** **Permission in the form of “No objection” for entering Haldia Dock**, from the office of the **Superintendent of Police, Purba Medinipur, West Bengal, India**, which acts as the **District Registration Office for foreigners**.

Dock Entry Permits shall not be issued to the mentioned foreign nationals without the aforesaid permission. The aforesaid “No objection”, along with photocopies of Passport and Visa of the foreign national, has to be submitted to the Administration Division of HDC, KoPT, with an application for obtaining Dock Entry Permit(s).

- 7.23.3 The Contractor will be fully responsible for any injury (whether fatal or otherwise) to their personnel [including that of approved Sub-contractor(s)], for any loss or damage to property or for any other loss, damage, costs and expenses, whatsoever caused, which, but for the granting of such permission, would not have arisen.
- 7.23.4 The Contractor will be liable to indemnify the Employer against any loss or damage to the property of the Employer or neighbouring property, which may be caused due to any act of the Contractor or their personnel [including that of approved Sub-contractor(s)].
- 7.23.5 **No photograph within the Dock Area** shall be taken by the Contractor, without prior permission of the Engineer.

7.24 Transportation of materials

- 7.24.1 All materials, spare parts, tools, tackles, service equipment, including consumables, required under this contract, will have to be packed, securely

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placed and protected by the Contractor during transportation. The Contractor will be held responsible for the inefficient packing, storing and protection of the materials.

7.25 Contractor's equipment

- 7.25.1 The Contractor shall be responsible for all the equipment of the Contractor. When brought on to the site, the Contractor's equipment shall be deemed to be exclusively intended for the execution of the work. The Contractor shall not remove from the site any major items or Contractor's equipment without the consent of the Engineer. However, consent shall not be required for vehicle(s) transporting goods or Contractor's personnel off site.

7.26 Supply of water and Electricity

7.26.1 Supply of water:

Drinking water supply at the **Contractor's site office, store, workshop, assembly/erection yard, etc.** will be given **on chargeable basis**. For this, the Contractor shall have to make **all arrangements, including installation of Water Meter and laying of pipelines from the source(s) identified by KoPT, at their cost**. The Contractor will be responsible for maintenance and calibration of such water meter also. Billing against water supply will be done in line with SCC.

KoPT do not guarantee uninterrupted supply of water and the Contractor shall not be compensated for any delay or irregularity in supplying water. The Contractor shall have to arrange for the supply of water at his own cost during such periods.

However, water supply, if required for the **actual work (including erection, commissioning & cleaning work) at the site only** and / or **maintenance, repair & cleaning work** (required to be carried out at site during the "Defect Liability Period") will be provided free of cost. The Contractor shall have to make **all arrangements for laying of pipelines from the source(s) identified by KoPT, at their cost**.

7.26.2 Supply of Electricity:

Supply of Electricity at the **Contractor's site office, store, workshop, assembly / erection yard, etc.** will be on **chargeable basis**. The Contractor shall have to make all arrangements, including **installation of Energy Meter and laying of Cables from the source(s) identified by KoPT, at their cost**. The Contractor will be responsible for maintenance and calibration of such Energy Meter also. Billing against **electricity charges** will be done in line with SCC.

KoPT do not guarantee uninterrupted supply of Electricity and the Contractor shall not be compensated for any delay or irregularity in supplying Electricity. The Contractor shall have to arrange for Electricity at his own cost during such periods.

However, Power supply, required for the **actual work (including erection and commissioning) at the site only** and/or **maintenance and repair** (required to be carried out at site during the "Defect Liability Period") will

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be provided free of cost. The Contractor shall have to make all arrangements for **laying of Cables from the source(s) identified by KoPT, at their cost.**

7.27 Use of ground and land/covered space for Contractor's establishment

- 7.27.1 The Contractor shall be allowed to use a suitable land (open space), which in the opinion of KoPT may be absolutely necessary for the proper and efficient execution of works. For this, a token lump sum licence fee of **₹ 10.00 per month or part thereof** will be charged during pendency of the contract and extension thereof, if any.
- 7.27.2 On completion of work or termination of the contract, the Contractor shall have to clear away all their tools, plants, rubbish and other materials, **within a fortnight** and hand over vacant and peaceful possession of the same to KoPT, in a tidy and clean condition. The same license fee (₹ 10.00 per month or part thereof) will be applicable for this additional period (if any) for clearing the space. If the Contractor fails to clear the space and handover the same to the Employer in a clean and tidy condition, within the period mentioned above, KoPT's "Schedule of Rate" will be applicable for the period beyond that.
- 7.27.3 The Contractor shall be allowed to erect any temporary structures on this land [as stated in **GCC Clause No. 7.27.1**] for **office and / or store and / or workshop**, etc. and make all suitable arrangement for water supply, Electricity supply and sanitary arrangements for the same, at their own cost.
- 7.27.4 In case the Contractor is interested in taking **covered space, office room**, etc. of KoPT for the purpose of making a site office and store in the Dock area, the same may also be allotted subject to availability. The rents for such covered spaces or office room of KoPT, to be allotted to the Contractor, shall have to be paid by the Contractor, as per the 'Schedule of Rent of KoPT, prevailing at that time. In addition to the rent, **water consumption charges** [as per **GCC Clause Nos. 7.26.1**] and **Electricity consumption charges** [as per **GCC Clause No. 7.26.2**] (if Electricity / water is supplied from KoPT sources) and other applicable charges, as per the notifications of **Tariff Authority of Major Ports (TAMP)**, have to be paid by the Contractor. The Contractor will be responsible for installation, maintenance and calibration of Water Meter and / or Energy Meter also.

7.28 Existing services

- 7.28.1 Drains, Pipes, Cables, overhead wires and similar services, whether above or below the ground, which may be encountered in the course of the work, shall be saved and kept harmless from injury and/or loss or damages by the Contractor, at their own costs and expenses, so that they continue to be in full and uninterrupted use to the Employer.
- 7.28.2 The Contractor shall not store any materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. The Contractor shall, at their own costs and expenses and without any delay,

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repair and make good, to the satisfaction of the Employer, any injury and/or loss or damage caused by the Contractor to the same.

7.29 Contractor to prepare working/ progress drawings

- 7.29.1 The Contractor shall provide and make, at his own expense, any working or progress drawings, required by him or necessary for the proper execution of the works, and shall, when required, furnish copies of the same, free of cost, to the Engineer for his information and/or approval, without meaning thereby the shifting of Contractor's responsibility on the Engineer, in any way, whatsoever.

7.30 Contractor's price is inclusive of all costs

- 7.30.1 Unless otherwise specified, the Contractor shall be deemed to have included in his bid / offer all his cost for supplying and providing all constructional plant, temporary work, materials (both for temporary and permanent works), labour (including supervision thereof), transporting to and from the site and in and about the work, including loading, unloading, fencing, watching, lighting, payment of fees, taxes and duties to the appropriate authorities and other things of every kind required for the construction, erection, completion and maintenance of the work.

7.31 Contractor is responsible for all construction process, except for correctness of design and specification formulated by the Engineer

- 7.31.1 The Contractor shall be solely responsible for the adequacy, stability and safety of all site operations and methods of construction, even if any prior approval thereto has been taken from the Engineer or his Representative. The Contractor shall not be responsible for the correctness of the design or specification of the temporary and permanent works formulated by the Engineer, but the Contractor shall be fully responsible for the correct implementation thereof, as also for any design and specification prepared/proposed/used by the Contractor.

7.32 Contractor to submit his programme of work

- 7.32.1 Whenever required by the Engineer or his Representative, the Contractor shall submit to him the details of his
- (a) programme for execution of the work,
 - (b) proposed procedure and methods of work,
 - (c) proposed deployment of plant, equipment, labour, materials and temporary works.
- The submission to and/or any approval by the Engineer or his Representative to any such programme or particulars shall not relieve the Contractor of any of his obligations under the contract.
- 7.32.2 If, for any reason, the Contractor be unable to adhere to his earlier programme, he shall submit his revised programme for completion of work within the stipulated time, whenever asked to do so.

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7.33 Contractor to supervise the works

- 7.33.1 Necessary and adequate supervision shall be provided by the Contractor during execution of the works and as long thereafter as the Engineer or his Representative shall consider necessary during the Defect Liability Period (DLP). The Contractor, or his competent and authorised agent or representative, shall be constantly at site and instructions given to him by the Engineer or his Representative, in writing, shall be binding upon the Contractor subject to limitation in **GCC Clause No. 7.16** hereof. The Contractor shall inform the Engineer or his Representative in writing about such representative/agent of him at site

7.34 Contractor is responsible for line, level, setting out, etc.

- 7.34.1 The Contractor shall be responsible for the true and proper setting out of the works, in relation to reference points / lines / levels given by the Engineer, in writing. The checking of any setting out or of any alignment or level by the Engineer or his Representative shall not, in any way, relieve the Contractor of his responsibility for the correctness thereof and he shall fully provide, protect and preserve all stakes, templates, bench marks, sight rails, pegs, level marks, profile marks and other things used in setting out the works.

7.35 Contractor is responsible to protect the work

- 7.35.1 From the commencement of the works till issue of the “Certificate of Completion of Work”, vide **GCC Clause No. 9.65** hereof, the Contractor shall take full responsibility for the care thereof. Save for the excepted risks, any damage, loss or injury to the work, or any part thereof, shall be made good by the Contractor, at his own cost, as per instruction and to the satisfaction of the Engineer, failing which, the Engineer or his Representative may cause the same to be made good by any other agency and the expenses, incurred and certified by the Engineer, shall be recoverable from the Contractor, in whatever manner the Engineer shall deem proper. This clause will not apply to that part of the work, which might have been taken over by the Trustees on partial completion of the work and in such case, the Contractor’s obligation will be limited to repairs and replacement for manufacturing or construction defects during the Defect Liability Period, as per the directions of the Engineer, as also for defects/damages, if any, caused to the work by the Contractor during such repairs and replacement during the Defect Liability Period.

7.36 Contractor is responsible for all damages to other structures / persons caused by him in executing the work

- 7.36.1 The Contractor shall, at his own cost, protect, support and take all precautions in regard to the personnel or structure or services or properties belonging to the Trustees or not, which may be interfered with or affected or disturbed or endangered and shall indemnify and keep indemnified the Trustees against claim for injury, loss or damage caused by the Contractor in connection with the execution and maintenance of the work to the aforesaid properties, structures and services and / or to any person, including the Contractor’s workmen. Cost of Insurance Cover, if any, taken by the

Contractor, shall not be reimbursed by the Trustees, unless otherwise stipulated in the contract.

7.37 Fossils, Treasure troves, etc. are Trustees' property

7.37.1 The Contractor shall immediately inform the Engineer's Representative if any fossil, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological importance be discovered at site, which shall remain the property of the Trustees, and protect them from being damaged by his workmen and arrange for disposal of them, at the Trustees' expense, as per the instruction of the Engineer's Representative.

7.38 Contractor to indemnify the Trustees against all claims for loss, damage, etc.

7.38.1 The Contractor shall be deemed to have indemnified the Trustees against all claims, demands, actions and proceedings and all costs arising there from on account of:

- (a) Infringement of any patent right, design, trademark or name or other protected right, in connection with the works or temporary work.
- (b) Payment of all royalties, rent, toll charges, local taxes, other payments or compensation, if any, for getting all materials and equipment required for the work.
- (c) Unauthorised obstruction or nuisance caused by the Contractor in respect of Public or Private road, railway tracks, footpaths, crane tracks, waterways, quays and other properties belonging to the Trustees or any other person.
- (d) Damage/injury caused to any highway and bridge on account of the movement of Contractor's plants and materials in connection with the work.
- (e) Pollution of waterway and damage caused to river, lock, sea-wall or other structure related to waterway, in transporting Contractor's plants and materials.
- (f) The Contractor's default in affording all reasonable facilities and accommodation, as per the direction of the Engineer or his Representative, to the workmen of the Trustees and other agencies employed by or with the permission and/or knowledge of the Trustees on or near the site of work.

7.39 Dismantled materials Trustees' property

7.39.1 Debris and materials, if obtained by demolishing any property, building or structure, in terms of the contract, shall remain the property of the Trustees.

7.40 Contractor's quoted rates / price must be all inclusive

7.40.1 The Contractor's quoted rates shall be deemed to have been inclusive of the following:

- (a) Keeping the site free of unnecessary obstruction and removal from site of constructional plant wreckage, rubbish, surplus earth or

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temporary works no longer required.

- (b) Cleaning and removal from site all the surplus materials, of every kind, to leave the site clean and tidy after completion of the work, without which payment against final bill may be liable to be withheld.
- (c) Precautionary measures to secure efficient protection of Docks, the River Hooghly and other waterways against pollution, of whatever nature, during execution and maintenance of the works and to prevent rubbish, refuse and other materials from being thrown into the water by the Contractor's men or those of his agency.
- (d) Making arrangements for deployment of all labourers and workers, local or otherwise, including payment for their wages, transport, accommodation, medical and all other statutory benefits and entry permits, wherever necessary.
- (e) Making arrangements, in or around the site, as per the requirements of Calcutta Municipality Corporation or other local authority or the Engineer or his Representative, for preventing
 - (i) spread of any infectious disease like smallpox, cholera, plague, malaria or dengue, by taking effective actions for destruction of rats, mice, vermin, mosquitoes, etc. and by maintaining healthy and sanitary condition,
 - (ii) illegal storage and distribution of Drugs, Narcotics, Alcoholic liquor, Arms and Ammunitions,
 - (iii) unlawful, riotous or disorderly conduct of the Contractor's or his Sub-contractor's workmen,
 - (iv) deployment of workmen of age less than 16 (sixteen) years.

7.41 Notice to Contractor

- 7.41.1 Every direction or notice to be given to the Contractor shall be deemed to have been duly served on or received by the Contractor, if the same is posted or sent by hand to the address given in the bid or to the Contractor's Site Office or, in case of Trustee's enlisted Contractor, to the address as appearing in the Trustee's Register or to the Registered Office of the Contractor. The time mentioned in these conditions for doing any act after direction or notice shall be reckoned from the time of such posting or despatch.

7.42 Contractor not to publish photograph or particulars of work

- 7.42.1 The Contractor and his Sub-contractor or their agents and men and any firm, supplying plant, materials and equipment, shall not publish or caused to be published any photographs or description of the works, without the prior authority of the Engineer in writing.

7.43 Contractor to provide facilities to outsiders

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- 7.43.1 The Contractor shall, at the Trustees' cost to be decided by the Engineer, render all reasonable facilities and co-operation, as per direction of the Engineer or his Representative, to any other Contractor engaged by the Trustees and their workmen, to the Trustees' own staff and to the men of other Public Body, on or near the site of work, and in default, the Contractor shall be liable to the Trustees for any delay or expense incurred by reason of such default.

7.44 Work to cause minimum possible hindrance to traffic movement

- 7.44.1 The work has to be carried out by the Contractor causing minimum hindrance for any maritime traffic or surface traffic.

D. STAFF AND LABOUR

7.45 Engagement of staff and labour

- 7.45.1 The labour, as mentioned in the respective clauses, shall include all labourers of the approved sub-contractor(s), with respect to this contract.
- 7.45.2 The Contractor shall have to make their own arrangements for the engagement of all staff and labour, for doing the work at site or in respect of or in connection with the execution of work, as also for the transport, housing, feeding. They shall have to ensure making payment to the above staff and labours, to be engaged by them (including the labours, to be engaged by the approved Sub-contractor, if any).
- 7.45.3 KoPT's store shall mean any store of Haldia Dock Complex, situated at Haldia.
- 7.45.4 It is expressly made clear that both before and after the completion of the work or termination of the contract, **KoPT shall have no liability, whatsoever, for the personnel to be engaged by the Contractor [or by the approved Sub-contractor(s)] for the work under this contract.**

7.46 Labour Laws

- 7.46.1 The Contractor shall, at all times, during the pendency of the contract [including the period of making good/rectification of deficiencies/defects, if any], have to comply fully with all existing **Acts, Regulations and Byelaws**, including all **statutory amendments** and re-enactment of **State or Central Government** and other **Local Authorities** and any other enactments and acts that may be passed in future either by the **State or the Central Government or Local Authority**, including **Workmen's Compensation Act, Labour Laws and Equal Remuneration Act, Factories Act, Minimum Wages Act, Contract Labour (Regulation & Abolition) Act**, etc., if applicable and/or as applicable.
- 7.46.2 If, as a result of the Contractor's failure, negligence, omission, default or non-observance of any provisions of any laws, the Employer is called upon by any authority to pay or reimburse or required to pay or reimburse any amount, the Employer shall be entitled to deduct the same from any moneys

due or that become due to the Contractor under this contract or any other contract or otherwise recover from the Contractor any sums, which the Employer is required or called upon to pay or reimburse on behalf of the Contractor.

All **registration** and **statutory inspection fees**, in connection with labour engagement, with respect to this contract, shall have to be paid by the Contractor, if applicable and/or as applicable.

- 7.46.3 The Contractor shall have to, immediately after the occurrence of any accident, at or near the site or in connection with the execution of the work under the contract, report (over phone or otherwise) to the Engineer or his representative(s) and shall make every arrangement to render all possible assistance to the victim(s) of such accident.

The Contractor shall also have to report such accident to the Engineer, in writing (giving reference to the earlier communication made). Based on such report, necessary communication with the competent authority would be made whenever such a report is required by law.

- 7.46.4 For any accident occurred within the entire operational area covered under the contract, the Contractor shall have to arrange prompt investigation into the matter through recording of statement of the personnel witnessing the accident. Such “Accident Report”, containing the findings, along with the statements so recorded, shall have to be forwarded by the Contractor to the Engineer at the earliest.

- 7.46.5 The Contractor shall have to provide full medical treatment to their staff & labourers, in case of “**Accident on Duty**”, which will inter alia include their obligations under the **Workmen’s Compensation Act, 1923**, including all amendments thereof.

The Employer shall in no manner be liable to the Contractor or any person engaged/employed by them [including that of Sub-contractor] or any other person, for injuries or death caused as a result of accidents occurred, either within or outside the site of work, under the contract. The Contractor shall be responsible for such contingencies and will make good all claims for compensation, claim by their personnel/workmen or the families of the sufferer(s), as the case may be, or as per the decision of the appropriate authority/tribunal or other involved persons.

- 7.46.6 The Contractor shall have to indemnify KoPT, in the event of KoPT being held liable to pay compensation for injury to any Contractor's servants or workmen [including that of Sub-contractor] under the **Workmen's Compensation Act, 1923**, as amended from time to time.

- 7.46.7 Whenever the contract comes to an end with the efflux of time or otherwise or is terminated, the Contractor shall be required to fulfil all their obligations towards their workmen in terms of applicable labour laws and submit necessary documents towards such effect, to the Employer in support of the same. Any deposit, which may be lying with KoPT to their credit, will be liable to be applied for this purpose, if the Contractor fails to comply with the same. In case such documents are not furnished by the Contractor, the

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Employer will not release the **Performance Guarantee/ Security Deposit** and any other amount as may remain due to the Contractor

7.47 **Health and safety**

- 7.47.1 In the event of any outbreak of illness or an epidemic nature, the Contractor shall have to comply with and carry out such regulations, orders & requirements, as may be made by the Government, or the local medical or sanitary authorities, for the purpose of dealing with and overcoming the same.
- 7.47.2 The Contractor shall have to ensure safety of all their working personnel to the fullest compliance of the provisions of **general safety rules/regulations**, including **Dock Workers' (Safety, Health & Welfare) Regulations, 1986**.
The Contractor shall be solely responsible for consequences arising out of non-compliance or violation of safety rules/ regulations.
- 7.47.3 The Contractor [including approved Sub-contractor(s)] shall have to provide (at their own expenses) all required **Personal Protection Equipment (PPE)** [such as **Helmets, Nose Masks, Hand Gloves**, etc.] & **Safety Gears** for all personnel and labourers engaged during the work and in case of their failing to do so, the Employer shall provide the same and recover the cost thereof from any amount due, or which may become due to the Contractor or from any amount lying with them or under their control.

7.48 **Labour licence**

- 7.48.1 Within 7 (seven) days from the date of issuance of the order, the Contractor shall have to apply for **labour licence** for the maximum number of workers proposed to be deployed for this work. Necessary certificate shall be issued by the Engineer against a request from the Contractor.
Photocopy of the application shall have to be furnished to the Engineer, immediately. However, payment will be released only on furnishing the copy of the **Labour Licence** to the Engineer. However, such license should be kept valid throughout the actual duration of contract.

7.49 **Employees' Provident Fund & Employees' State Insurance**

- 7.49.1 The Contractor should have their establishment (with respect to this contract) registered with the concerned authorities under the provision of **Employees' Provident Fund & Miscellaneous Provision Act, 1952** and **Employees' State Insurance Act, 1948**. The Contractor shall have to submit the proof of registration as mentioned above immediately after commencement of work.
- 7.49.2 As per the above mentioned Act, the Contractor is liable for remittance of monthly subscription contribution in respect of **Employees' Provident Fund (EPF)** and **Employees' State Insurance (ESI)** for the workers engaged by them, wherever applicable. The Contractor shall have to submit the authenticated copy of the challans with respect to subscription / contribution of **Employees' Provident Fund** and **Employees' State Insurance** (against their respective Code Numbers issued by the **Employees' Provident Fund** and **Employees' State Insurance**

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Authorities) by 7th day of every English Calendar Month (during the currency of the contract) along with the list of labourers for whom such deposits have been made.

Payment will be held up if the up-to-date **Employees' Provident Fund** and **Employees' State Insurance** remittance challan is not submitted in time.

- 7.49.3 In case, registration with the EPF and ESI Authorities is not applicable for the employees of the Contractor [or for the employees of the Sub-contractor(s)], documentary evidence to establish non-applicability to be submitted by the Contractor.
- 7.49.4 In case of sub-contracting any part of the work, above requirements should also be fulfilled by the approved Sub-contractor and necessary documents shall have to be submitted in time, as indicated above.

E. PLANT, MATERIALS AND WORKMANSHIP

7.50 Materials to be supplied by the Employer

- 7.50.1 Regarding supply of any materials by the Trustees to the Contractor, in accordance with the contract, the following conditions shall apply:
- a) The Contractor shall, at his own expense, arrange for transporting the materials from the Trustees' Store [store of Haldia Dock Complex, situated at Haldia], watching, storing and keeping them in his safe custody, furnishing of statement of consumption thereof in the manner required by the Engineer or his Representative, return of surplus and empty container to the Trustees' Stores, as per the direction of the Engineer or his Representative.
 - b) Being the custodian of the Trustees' materials, the Contractor shall remain solely responsible for any such materials issued to him and for any loss or damage thereof for any reason other than "Excepted Risks", the Contractor shall compensate the Trustees', in the manner decided by the Engineer, and shall, at no stage, remove or cause to be removed any such material from the site, without his permission.
 - c) The Trustees' materials will generally be supplied in stages and in accordance with the rate of progress of work, but, except for grant of suitable extension of completion time of work as decided by the Engineer, the Contractor shall not be entitled to any other compensation, monetary or otherwise, for any delay in the supply of Trustees' materials to him. The Contractor shall, however, communicate his requirement of such materials to the Engineer from time to time.
 - d) Unless stipulated otherwise in the contract, the value of the Trustees' materials issued to the Contractor shall be recovered from the Contractor's bills and/or any of his other dues, progressively, according to the consumption thereof on the work and/or in the manner decided by the Engineer or his Representative and at the

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rate(s) stipulated in the contract. These rates shall only be considered by the Contractor in the preparation of his bid/offer and these will form the basis of escalation/variation, if in future the Contractor is required to procure and provide any such material on the written order of the Engineer, consequent on the Trustees' failure to effect timely supply thereof.

- e) If the Engineer decides that due to the Contractor's negligence, any of the Trustees' materials, issued to the Contractor, has been – (i) lost or damaged, (ii) consumed in excess of requirement and (iii) wasted by the Contractor in excess of normal wastage, then the value thereof shall be recovered from the Contractor's bills, or from any of his other dues, after adding 19.25 % extra over the higher one of the followings:
 - i) The issue rate of the materials at the Trustees' Stores, and
 - ii) The market price of the material on the date of issue, as would be determined by the Engineer.

7.51 **Contractor's arrangement for execution of the work**

- 7.51.1 The Contractor will have to arrange and provide all types of materials, etc. [in line with the Technical Specification] throughout the execution of the contract.
- 7.51.2 KoPT will not take any responsibility regarding **non-availability** of any such materials for which Contractor is responsible as per contract. The Contractor shall have to assess the requirement of such materials and keep sufficient stock.
- 7.51.3 The Contractor shall have to provide all equipment, including tools, tackles, lifting machineries, air compressor, scaffolding arrangement, different vehicular transport, etc., necessary to execute the work.
- 7.51.4 All tools & machineries to be used by the Contractor should be suitable for the particular requirement (i.e. capacity should be adequate) and the same should be checked for fitness before use. They should maintain the said equipment properly to ensure their efficient working.
- 7.51.5 The Contractor shall, at their own costs and expenses, have to provide all labour, plant, haulage, transportation of plant and equipment to be used for executing the contract, all materials, stores, etc. (except the equipments & materials to be provided by KoPT, as per contract) required for efficiently carrying out the work to the satisfaction of the Employer.
- 7.51.6 The Contractor should use calibrated measuring & testing instruments and should also ensure revalidation of such calibration as and when required. In this regard, initially the Contractor shall have to submit a list of **measuring and testing instruments** (mentioning the period of validity of Calibration Certificates) to be used. The photocopies of the Calibration Certificates (including the revalidations) of the said measuring and testing instruments, shall have to be submitted to the Engineer.

7.52 **Inspection and testing**

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- 7.52.1 The Engineer or his authorised Representative shall have, at all reasonable time, access to the Contractor's premises or work site or other premises [if a part of the work is being executed there or some **maintenance repair** work (during **Defect Liability Period**) is being done there] and shall have the power, at all reasonable time, to **inspect, examine and test the materials and workmanship**, as well as the **documents, equipment, tools, measuring & testing instruments**, as applicable, in connection with the instant contract (including **Defect Liability Period**).
- 7.52.2 The Engineer or his authorised Representative, on giving 7 (seven) days' notice, in writing, to the Contractor, setting out any ground of objections, in respect of the work, shall be at liberty to reject all or any material and/or workmanship in the subject of any of the said grounds of objection, which are not in accordance with the contract.
- 7.52.3 Quality of materials, to be provided by the Contractor under this contract, should be as per the satisfaction of the Engineer. Whenever asked, the Contractor shall have to provide free sample for testing.
- 7.52.4 If found necessary, KoPT reserves the rights to get the materials inspected from a **Government or Government recognized Laboratory/Test House**.
- 7.52.5 In case of sub-letting to other Contractors or manufacturers or suppliers by the Contractor, the Engineer will reserve the right as follows:
- i) that inspection and / or testing will be carried at the Sub-contractor's works; or
 - ii) that inspection will be carried out at site; or
 - iii) that inspection will be waived, subject to the Contractor furnishing a certificate of compliance with specification by a competent authority recognised by national/international institutes.
- 7.52.6 The Employer may appoint a **Third Party Inspection Agency**, as detailed at SCC, at the cost of the Employer, for stage-wise technical inspection and certification of **materials & workmanship**, including **painting, erection, commissioning**, etc. [in connection with the contract job, in part or as a whole]. In that case The relevant Certificates shall be produced by the **Third Party Inspection Agency** to the Engineer or his authorised Representative.
- 7.52.7 The stage-wise technical inspection will be carried out by the representative of the Engineer [or **Third Party Inspection Agency**] based on the approved **Quality Assurance Plan (QAP) & Field Quality Assurance Plan (FQAP)** [considering the Technical Specification of the bidding documents].
- 7.52.8 The Contractor shall have to submit a **Quality Assurance Plan (QAP)** and a **Field Quality Assurance Plan (FQAP)**, based on the Technical Specification and other terms & conditions stipulated in the bidding documents. The **QAP & FQAP** shall be approved by the "**Engineer**".
- 7.52.9 In all cases where tests are required, within the purview of QAP & FQAP, whether at the premises of the Contractor or any Sub-contractor or

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elsewhere, the Contractor, except where otherwise specified, shall provide free of charges such labour, materials, electricity, fuel, water, stores, apparatus and instruments, as may reasonably be demanded, to carry out sufficiently such tests and shall, at all times, facilitate the Engineer or his Representative [and / or the Third Party Inspection Agency] , to accomplish such testing.

7.52.10 The cost of all tests and / or analyses, within the purview of QAP & FQAP, effected at the Contractor's or Sub-contractor's works and on the site, shall be borne by the Contractor. The Contractor will be called upon to pay all expenses incurred by the Employer in respect of any work found to be defective or of inferior quality, adulterated or otherwise unacceptable.

7.52.11 If, during inspection by the **Third Party Inspection Agency [if appointed by KoPT]**, any material or test [within the purview of QAP & FQAP] fails to fulfil the contract conditions for **more than 2 (two) times, any additional amount charged by the Third Party Inspection Agency towards inspection of the same from the 3rd time onwards shall have to be borne by the Contractor**. If the Contractor fails to make such payment to the **Third Party Inspection Agency**, the same shall be deducted from the bill(s) of the Contractor and paid to the **Third Party Inspection Agency**

7.52.12 **Tests on completion:**

On **completion of installation**, the contractor with give a **7 (seven) days'** notice to the Engineer, in writing (informing the date on which they will be ready to make the tests), before carrying out such tests, in accordance with and in the manner prescribed in the specifications. The procedure specified in SCC shall be followed in this respect.

7.52.13 Notwithstanding the fact that the materials or installations have passed the inspection, the Contractor is not relieved from his obligations to conform to the quality, workmanship, guaranteeing the performance, etc., as per the contract.

7.53 Contractor to replace materials/work not acceptable to the Engineer or his Representative

7.53.1 The Engineer or his Representative shall have the power to inspect any material and work at any time and to order at any time

- a) for removal from the site of any material, which, in his opinion, is not in accordance with the contract or the instruction of the Engineer or his Representative,
- b) for the substitution of proper and suitable materials, or
- c) the removal and proper re-execution of any work, which, in respect of material and workmanship, is not in accordance with the contract or the instructions of the Engineer.

The Contractor shall comply with such order at his own expense and within the time specified in the order. If the Contractor fails to comply, the Engineer shall be at liberty to dispose any such materials and re-do any work in the manner convenient to the Trustees by engaging any outside agency, at the risk and expense of the Contractor and after giving him a written prior

notice of 7 (seven) days.

7.54 Removal of materials on completion

- 7.54.1 The Contractor shall, on completion of the contract or when directed by the Employer, shall have to remove all plant, equipment, tools, materials, temporary constructions, etc. and rubbish garbage, waste, which may have accumulated during the execution of the contract, other than those permanently used into the work, at Employer's site.

7.55 Workmanship and secrecy

- 7.55.1 The Contractor shall carry out the services in conformity with generally accepted norms and sound standards of Engineering. The Contractor shall be responsible for the technical soundness of the services rendered. In the event of any deficiency in those services, the Contractor shall promptly re-do the same, at no additional cost to the Employer.
- 7.55.2 The Contractor shall use all the documents, drawings and other data & information, of proprietary nature, received from the Employer, solely for the purpose of performing and carrying out the obligations on his part under the Agreement in the performance of the works for the project and maintain utmost secrecy, in this regard. The documents, drawings and other data & information, received from the Employer, shall not be used by the Contractor for any other purpose.

F. COMMENCEMENT, EXECUTION & COMPLETION OF WORK, HANDING OVER AND TAKING OVER

7.56 Preliminary time to commence work and maintenance of steady rate of progress

- 7.56.1 The Contractor shall commence the work within 7 (seven) days of the receipt of Engineer's letter informing acceptance of the Contractor's bid / offer by the Trustees or within such preliminary time as mentioned by the Contractor in the "Form of Tender" or the time accepted by the Trustees. The Contractor shall then proceed with the work with due expedition and without delay, except as may be expressly sanctioned or ordered by the Engineer or his Representative, time being deemed the essence of the contract on the part of the Contractor.

7.57 Contractor's site office

- 7.57.1 The Contractor shall provide and maintain a suitable office at or near the site to which the Engineer's Representative may send communications and instructions for use of the Contractor.

7.58 Contractor to observe Trustees' working hours

- 7.58.1 Unless specified otherwise in the contract or prior permission of the Engineer has been taken, the Contractor shall not execute the work beyond the working hours observed by the Engineer's Representative and on Sundays and Holidays observed in the Trustees' system, except in so far as it becomes essential on account of tidal work or for safety of the work. If the progress of the work lags behind schedule or the work has been endangered

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by any act or neglect on the part of the Contractor, then the Engineer or his Representative shall order and the Contractor, at his own expense, shall work by day and by night and on Sundays and Public Holidays. Any failure of the Engineer or his Representative to pass such an order shall not relieve the Contractor from any of his obligations. The Engineer's decision, in this regard, shall be final, binding and conclusive.

7.59 Contractor to supply all materials as per requirement of the Engineer or his Representative

7.59.1 Unless stipulated otherwise in the contract, all materials required for the work shall be procured and supplied by the Contractor with the approval of the Engineer or his Representative and subject to subsequent testing, as may be required by the Engineer or his Representative. The Engineer shall exercise his sole discretion to accept any such materials.

7.60 Materials and works

7.60.1 Unless stipulated otherwise in the contract, all materials, workmanship and method of measurement shall be in accordance with the relevant Codes (Latest Revision) of the Bureau of Indian Standards and the written instructions of the Engineer or his Representative. Where no specific reference is available in the contract, the material and workmanship shall be of the best of their respective kinds to the satisfaction of the Engineer.

7.61 Contractor to submit samples for approval

7.61.1 Samples shall be prepared and submitted for approval of the Engineer or his Representative, whenever required to do so, all at the Contractor's cost.

7.62 Contractor to seek approval of Engineer or his Representative before covering up any portion of work

7.62.1 No work shall be covered up and put out of view by the Contractor without approval of the Engineer or his Representative and whenever required by him, the Contractor shall uncover any part or parts of the work or make openings in or through the same as may be directed by the Engineer or his Representative from time to time and shall reinstate or make good those part of works thus affected, to the satisfaction of the Engineer, all at the cost of the Contractor.

7.62.2 The Trustees shall reimburse such cost, as determined by the Engineer, if the initial covering up was with prior written order of the Engineer or his Representative.

7.63 Contractor to suspend work on order from Engineer or his Representative

7.63.1 On a written order of the Engineer or his Representative, the Contractor shall delay or suspend the progress of the work, till such time the written order to resume the execution is received by him. During such suspension, the Contractor shall protect and secure the work to the satisfaction of the Engineer or his Representative. All extra expenses, in giving effect to such order, shall be considered by the Trustees, unless such suspension is:

- a) for removal from the site of any material, which, in his opinion, is not in accordance with the contract or the instruction of the Engineer or his

Representative,

- b) otherwise provided for in the contract, or
- c) necessary by reason of some default on the part of the Contractor, or
- d) necessary by reason of climatic conditions on the site, or
- e) necessary for proper execution of the works or for the safety of the works or any part thereof.

7.63.2 The Engineer shall settle and determine such extra payment and/or extension of completion time to be allowed to the Contractor, as shall, in the opinion of the Engineer, be fair and reasonable.

7.63.3 If at any time, before or after commencement of the work, the Trustees do not require the whole of the work tendered for, the Engineer shall notify the same to the Contractor in writing and the Contractor shall stop further works in compliance of the same. The Contractor shall not be entitled to any claim for compensation for underived profit or for such premature stoppage of work or on account of curtailment of the originally intended work by reason of alteration made by the Engineer in the original specifications, drawings, designs and instructions.

7.64 **Completion Certificate**

7.64.1 When the whole of the work [as detailed in **GCC Clause No. 7.65 (Completion period)**] has been completed to the satisfaction of the Engineer, the Contractor shall, within 21 (twenty one) days of submission of his application to the Engineer, be entitled to receive from him a certificate for completion of work as per the form furnished in **Section – XI**.

7.65 **Completion period**

7.65.1 All the jobs, as per contract, are to be completed within the period stipulated in the SCC.

7.66 **Taking over of the Contract job by KoPT**

7.66.1 The **Contract job** will be taken over by HDC, KoPT after completion of the works in accordance with the contract, having passed all the tests under “Tests on completion”.

7.66.2 However, the actual date of completion of the contract will be considered as per **GCC Clause No. 7.65 [Completion period]**.

7.67 **Defect Liability Period (DLP)**

7.67.1 “**Defect Liability Period**” shall mean the **Guarantee Period**, as specified in SCC.

7.67.2 During “**Defect Liability Period**” [as specified in SCC], the Contractor shall nominate 1 (one) competent, experienced and responsible technical person, to co-ordinate and execute all works to be attended by the Contractor, as per contractual obligations, without any extra cost to HDC, KoPT.

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- 7.67.3 The Contractor shall be responsible for making good (including replacement of defective items, if required), with all possible speed, at their expense, any defect in or damage to any portion of the work, which may appear or occur after the Contract job has been taken over [as per GCC Clause No. 7.66 (Taking over of the Contract job by KoPT)] and before expiry of Defect Liability Period [as specified in **SCC**] and which arises either:
- a) from any defective materials, workmanship or design, or
 - b) from any act or omission of the Contractor done or omitted during the said period

7.68 Defects after taking over

- 7.68.1 If any such defects shall appear or damage occur (as detailed in **7.67.3**), the Engineer shall forthwith inform the Contractor thereof, stating in writing the nature of defect or damage.
- The provision of this clause shall apply to all replacements or renewals carried out by the Contractor to remedy defects and damage as if the said replacements and renewals had been taken over on the date they were completed to the satisfaction of Engineer. After the taking over, if the Contract job cannot be used (for the purpose for which it is intended), during any period, by the reason of a defect or damage, the **Defect Liability Period** shall be extended accordingly, as specified in **SCC**.
- 7.68.2 If any such defect or damage be not remedied by the Contractor within a reasonable time, HDC, KoPT may proceed to do the work at the Contractor's risk and expense, but without prejudice to any other rights which HDC, KoPT may have against the Contractor in respect of such defects.
- 7.68.3 All inspection, adjustments, replacement or renewal carried out by the Contractor during the period referred in this clause shall be subject to the conditions of this contract, which shall be binding on the contractor in all respects during the **Defect Liability Period** and its extension, if any.

7.69 Extension of completion period and liquidated damage

7.69.1 Extension of completion period:

Should the quantum of extra or additional work of any kind or delayed availability of the Trustees' materials to be supplied as per contract or **Force Majeure** condition (as per **GCC Clause No. 7.86**) or other special circumstances, of any kind, beyond the control of the Contractor or any other reason not attributable to the Contractor [including hindrance at site of work, causes indicated as "**Excepted Risks**", etc.] cause delay in completing the work, the Contractor shall apply to the Engineer, in writing, for suitable extension of completion period, within **7 (seven) days** from the date of occurrence of the reason and the Engineer shall thereupon consider the stated reasons in the manner deemed necessary and shall either reject the application or determine and allow, in writing, the extension period as he

would deem proper for completion of the work, with or without the imposition of “**Liquidated Damage**” (**GCC Clause No. 7.69.2** hereof) on the Contractor and his decision shall be binding on the Contractor. If an extension of completion period is granted by the Engineer, “**Liquidated Damage**” (**GCC Clause No. 7.69.2** hereof) shall apply from its date of expiry, if the work be not completed within the extended time, unless stated otherwise in the decision communicated by the Engineer, as aforesaid.

7.69.2 **Liquidated Damage:**

If the Contractor fails to complete the work within the stipulated dates [as per **GCC Clause No. 7.65 (Completion period)**] or such extension thereof, as communicated by the Engineer, in writing, the Contractor shall pay as compensation (**Liquidated Damage**) to the Trustees and not as a penalty, as per the following:

In case of handing over the Contract Job after the scheduled completion period, **Liquidated Damage @ ½% of the Contract Price [excluding GST]** , for every week or part thereof, beyond the scheduled date of completion, will be deducted from the Contractor’s bill. Provided always the amount of such compensation shall not exceed **10 %** of the cost the Contract Price [excluding GST].

- 7.69.3 Without prejudice to any of their legal rights, the Trustees shall have the power to recover the said amount of compensation/damage, as per **GCC Clause No. 7.69.2** from any money due or likely to become due to the Contractor. The payment or deduction of such compensation/damage shall not relieve the Contractor from his obligation to complete the work or from any of his other obligations/liabilities under the contract and in case of the Contractor’s failure and at the absolute discretion of the Engineer, the work may be ordered to be completed by some other agency, at the risk and expense of the Contractor, after a minimum **3 (three) days** notice, in writing, has been given to the Contractor by the Engineer or his Representative.

G. CONTRACT PRICE , PAYMENT AND DEDUCTIONS

7.70 Contract Price

- 7.70.1 Price charged by the Contractor for the related services performed under the contract shall not vary from the rates accepted by the Employer, based on the bid/offer of the successful bidder and stated in the “Letter Of Acceptance”, with the exception of any price adjustment, if provided for in the contract.
- 7.70.2 Changes **in statutory taxes & duties will be adjusted** time to time.
- 7.70.3 No claim whatsoever of the Contractor for their man & material resources remaining idle for any reason or for any other expenses incurred by them due to the flow of work not being continuous or for stoppage of work, will be entertained by the Employer.

7.71 Terms of payment

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7.71.1 **Payment of Goods & Services Tax (GST):**

Amount of GST will be borne by HDC, KoPT on production of suitable document(s) by the Contractor.

7.71.2 **Time of payment:**

The Contractor shall have to submit **bills in triplicate** to the Engineer, in accordance with the stage-wise payments specified in **SCC**. In normal circumstances, payment of the bills, accompanied by **Inspection Certificates** & other relevant documents, duly recommended by the Engineer, will be passed within 30 (thirty) days from the date of receipt of such bills, if found in order.

7.71.3 **Income Tax deduction:**

Income Tax, if any, as per the relevant provision of the Income Tax Act, shall be **deducted at source** from amount payable to the Contractor.

7.71.4 **No interest on account of delayed payments:**

Any claim for interest will not be entertained by KoPT with respect to any delay on the part of KoPT for making payment, or for any dispute. The decision of the Engineer is final in such matters.

7.72 **Extra expenses incurred by the Employer**

7.72.1 Any extra expenses incurred in connection to the work by the Employer in the performance of the work owing to the neglect or omission on the part of the Contractor in any of the case mentioned in this contract shall be deducted from any sum due or which may thereafter become due to the Contractor or from any amount lying with them or under their control or they may be called upon to pay the amount of such extra expense to such person or persons as the Employer may appoint to receive the same and in the event of the Contractor failing to make such payment, the said amount shall be recoverable from them in such manner as the Employer may determine,

7.73 **Recovery of deducted amount**

7.73.1 Without prejudice to any of their legal rights, the Trustees shall have the power to recover the amount of **DEDUCTION**, from any money due or likely to become due to the Contractor. Such payment or deduction shall not relieve the Contractor from their obligation to complete the work or from any of their other obligations / liabilities under the contract.

7.74 **Variation and its valuation**

7.74.1 The Engineer shall have the power to order the Contractor, in writing, to make any variation of the quantity, quality or form of the works or any part thereof that may, in his opinion, be necessary and the Contractor upon receipt of such an order shall act as follows:

- a) Increase or decrease the quantity of any work included in the contract.
- b) Omit any work included in the contract.
- c) Change the character or quality or kind of any work included in the contract.
- d) Change the levels, lines, position and dimensions of any part of the work, and

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- e) Execute extra and additional work, of any kind, necessary for completion of the works.
- 7.74.2 No such variation shall, in any way, vitiate or invalidate the contract or be treated as revocation of the contract, but the value (if any) of all such variations, evaluated in accordance with the Engineer's sole decision, shall be taken into account and the contract price shall be varied accordingly.
- 7.74.3 Provided always that written order of the Engineer shall not be required for increase or decrease in the quantity of any work up to 15%, where such increase or decrease is not the result of any variation order given under this clause but is the result of the quantities exceeding or being less than those stated in the "Price Schedule". Provided also that verbal order of variation from the Engineer shall be complied with by the Contractor and the Engineer's subsequent written confirmation of such verbal order shall be deemed to be an order in writing within the meaning of this clause.
- 7.74.4 The Contractor shall not be entitled to any claim of extra or additional work, unless they have been carried out under the written orders of the Engineer.
- 7.74.5 The Engineer shall solely determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra work done or work omitted by his order.
- 7.74.6 All extra, additional or substituted work done or work omitted by order of the Engineer shall be valued on the basis of the rates and prices set out in the contract, if in the opinion of the Engineer, the same shall be applicable. If the contract does not contain any rates or prices directly applicable to the extra, additional or substituted work, then the Engineer may decide the suitable rates on the basis of "Schedule of Rates" (including surcharge in force at the time of acceptance of bid), if any, adopted by the Trustees with due regard to the accepted contractual percentage, if any thereon. In all other cases, the Engineer shall solely determine suitable rates in the manner deemed by him as fair and reasonable and his decision shall be final, binding and conclusive.
- 7.74.7 If the nature or amount of any omission or addition relative to the nature or amount of the whole of the contract work or to any part thereof shall be such that, in the opinion of the Engineer, the rate of prices contained in the contract for any item of the works or the rate as evaluated under **GCC Clause Nos. 7.74.5 & 7.74.6**, is by reason of such omission or addition rendered unreasonable or in-applicable, the Engineer shall fix such other rate or price as he deems proper and the Engineer's decision shall be final, binding and conclusive.

H. TERMINATION BY EMPLOYER

7.75 Notice to correct

- 7.75.1 If the Contractor fails to carry out any of their obligations under the contract, the Engineer may give notice to the Contractor, requiring them to make good the failure and to remedy the same within a specified reasonable time.

7.76 Termination by Employer

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7.76.1 The Employer shall be entitled to terminate the contract if:

- a) the Contractor fails to comply with **GCC Clause No. 7.20 [Performance Guarantee / Security Deposit]**
or
with a notice under **GCC Clause No. 7.75 [Notice to correct]**,
- b) the Contractor **abandons** the work, or **repudiates** the contract, or otherwise plainly demonstrates the intention not to continue performance of their obligations under the contract,
- c) the Contractor, without reasonable or lawful excuse under this contract,
 - i) fails to proceed with the work, **within 14 days** from the scheduled date for commencement of work, in accordance with **GCC Clause No. 7.56 [Preliminary time to commence work and maintenance of steady rate of progress]**,
 - ii) keeps the work suspended for **at least 14 days**, despite receiving Engineer's written notice to proceed with the work,
or
 - iii) fails to comply with a notice issued regarding rejection of material(s)/work and/or remedial work, **within 28 days** after receiving it,
- d) the Contractor **assigns/sub-contracts the whole of the work**
Or
sub-contracts any portion of the work, without the required consent, in line with **GCC Clause No. 7.22.**
- e) the Contractor becomes **bankrupt** or **insolvent**, goes into liquidation, have a receiving or administrative order made against them, compounds with their creditors, or carries on business under a receiver, trustees or manager for the benefit of their creditors, or if any act is done or event occurs which (under applicable laws) has a similar effect to any of these acts or events,
- f) the Contractor gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an inducement or reward,
 - i) for doing or forbearing to do any action in relation to the contract, or
 - ii) for showing or forbearing to show favour or disfavour to any person in relation to the contract,
or, if any of the Contractor's personnel, Agents or Sub-contractors gives or offers to give (directly or in directly) to any person any such inducement or reward as is described in this **sub-paragraph (f)**. However, lawful inducement and reward to the Contractor's personnel shall not entitle termination

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- g) the Contractor fails to execute the work in accordance with the contract or persistently or flagrantly neglects to carry out their obligations under the contract.
- h) the Contractor fail to make payment of wages to their personnel in relation to this contract,
- i) the Contractor fails to carry out the work satisfactorily (as stated in these bidding documents or otherwise decided by the Engineer) or may not be able to complete the work within the agreed period on account of Contractor's lapses.
- j) any accident occurs due to improper way of working by the Contractor's personnel, or
- k) any misconduct done by Contractor's personnel (including that of Agents or Sub-contractors) to KoPT's employees.

In any of these event or circumstances, the Employer may, upon giving a **minimum 14 days' notice** [communicated by the Engineer] to the Contractor, **terminate the contract** and expel the Contractor from the site, without being liable for any compensation to the Contractor. However, in case of **sub-paragraph (e) or (f)**, the Employer may, by notice [communicated by the Engineer], terminate the contract immediately.

The Employer's election to terminate the contract shall not prejudice any other rights of the Employer, under the contract or otherwise.

- 7.76.2 Upon receipt of the letter of termination of work, which may be issued by the Engineer on behalf of the Employer, the Contractor shall have to leave the site of work and deliver any **required goods**, all **Contractor's documents**, and other **design documents**, made by or for them, all the **Trustees' tools, plant and materials** issued to them, at the place to be ascertained by the Engineer, **within 7 days** of receipt of such letter. However, the Contractor shall use their best efforts to comply immediately with any reasonable instructions included in the notice

- i) for the assignment of any Sub-contractor,

And

- ii) for the protection of life or property or for the safety of the equipment/work.

The Contractor shall not be released from any of their obligations or liability under the contract and the rights & authorities conferred on the Employer and Engineer, by the contract, shall not be affected.

- 7.76.3 Upon such termination of work, the Employer shall have the power to complete the work by **themselves** and/or through **any other agency** at the **Contractor's risk & expense** and the Contractor shall be debited **any sum or sums that may be expended in completing the work beyond the**

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amount that would have been due to the Contractor, had they duly completed the whole of the work in accordance with the contract.

The Employer or such other agency may use, for such completion, so much of the Contractor's documents, other design documents, made by or on behalf of the Contractor, Contractor's equipment, temporary work, plant & materials, as they think proper.

Upon completion of the work, or at such earlier date, as the Engineer shall give notice that the Contractor's equipment and temporary work will be released to the Contractor at or near the site, the Contractor shall remove or arrange removal of the same from such place without delay and at their risk & cost. However, if by this time the Contractor has failed to make a payment due to the Employer, these items may be sold by the Employer in order to recover this payment. Any balance of the proceeds shall be paid to the Contractor.

7.77 Valuation at date of termination

- 7.77.1 As soon as practicable after a notice of termination under **GCC Clause No. 7.76 [Termination by Employer]**, has taken effect, the Engineer shall proceed in accordance with **GCC Clause No. 7.19 [Determinations]** to agree or determine the value of the work, goods & Contractor's documents, and any other sums due to the Contractor for work executed, in accordance with the contract. The value of such work (executed in accordance to the Contract) shall be determined based on measurements of actual work done and approved rate(s), as per contract or other rates, as decided by the Engineer. The Engineer's decision, in such case, shall be final, binding and conclusive.

7.78 Payment after termination

- 7.78.1 After a Notice of termination, under **GCC Clause No. 7.76 [Termination by Employer]** has taken effect, the Employer may
- a) give notice to the Contractor, indicating the particulars, for which Employer is entitled to any payment under any Clause or otherwise in connection with the contract, and or any extension of the **Defect Notification Period**.

However , Notice is not required for payments due under **GCC Clause No. 7.26 [Supply of water and Electricity]**, under **GCC Clause No. 7.27 [Use of ground and land/covered space for Contractor's establishment]**, or for other services requested by the Contractor,
 - b) withhold further payments to the Contractor until the cost of execution, completion and remedying of any defects, damage, and all other costs incurred by the Employer, have been established, and / or
 - c) recover from the Contractor any losses and damages incurred by the Employer and any extra costs of completing the work, after allowing for any sum due to the Contractor under **GCC Clause No. 7.77 [Valuation at date of termination]**. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the

Contractor.

7.79 Employer's entitlement to termination for convenience

7.79.1 The Employer, by notice [communicated by the Engineer] sent to the Contractor, may terminate the Contract, in whole or in part, at any time **for Employer's convenience**. Such termination shall take effect **28 days** after the date on which the Contractor receives this notice or the Employer returns the Performance Guarantee. The notice of such termination shall specify that termination is for **Employer's convenience**, the extent to which performance of the Contractor under the contract is terminated, and the date upon which such termination become effective.

The Employer shall not terminate the contract under this Sub-clause in order to execute the work exclusively by themselves or to arrange for work to be executed exclusively by another Contractor or to avoid a termination of the contract by the Contractor under **GCC Clause No. 7.82 [Termination by Contractor]**.

After such termination, the Contractor shall proceed in accordance with **GCC Clause No. 7.83 [Cessation of work and removal of Contractor's equipment]** and shall be paid in accordance with **GCC Clause No. 7.90 [Optional termination, payment and release]**.

7.80 Corrupt or fraudulent practices

7.80.1 If the Employer determines that the Contractor has engaged in **corrupt, fraudulent, collusive, coercive, or obstructive** practices, in competing for or in executing the Contract, then the Employer may, after giving **14 days notice** to the Contractor, terminate the Contractor's employment under the Contract and expel them from the Site, and the provisions of **GCC Clause Nos. 7.75 to 7.78** shall apply as if such expulsion had been made under **GCC Clause No. 7.76 [Termination by Employer]**.

Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the work, then that employee shall be removed in accordance with **GCC Clause No. 9.21 [Contractor's personnel and Contractor's representative]**.

For the purposes of this clause:

- i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

- iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v) “obstructive practice” is deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede the Employer investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and / or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.

I. SUSPENSION AND TERMINATION BY CONTRACTOR

7.81 Contractor’s entitlement to suspend work

- 7.81.1 The Contractor may, if the Employer fails to pay the Contractor the amount due under any certificate of the Engineer **within 28 days** after the expiry of the time stated in **GCC Clause No. 7.71 [Terms of payment]** within which payment is to be made, subject to any deduction that the Employer is entitled to make under the Contract, after giving 28 days’ prior notice to the Employer, with a copy to the Engineer, suspended work or reduce the rate of work.
- 7.81.2 If the Contractor subsequently receives the due payment (as described in the relevant Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.
- 7.81.3 If the Contractor suspends work or reduces the rate of work in accordance with the provisions of this Clause and thereby suffers delay, the Engineer shall, after due consultation with the Contractor, determine any extension of time or minimum criteria for satisfactory performance, to which the Contractor is entitled and shall notify the Contractor accordingly.

7.82 Termination by Contractor

- 7.82.1 The Contractor will be entitled to terminate the Contract if:
 - a) the Contractor does not receive the reasonable evidence within **42 days after** giving notice under **GCC Clause No. 7.81 [Contractor’s entitlement to suspend work]** in respect of a failure of the Employer to pay the Contractor the amount due,
 - b) the Employer obstruct or refuse any required approval to the issue of any such certificate, which is essentially required for further progress of the work without notifying any reason for such obstruction or refusal for a unreasonably long period of time, or
 - c) the Employer become bankrupt or insolvent, go into liquidation, or enter into composition with the creditors,

Or

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- d) the Employer give notice to the Contractor that for unforeseen reasons, due to economic dislocation, it is impossible for them to continue to meet their contractual obligations.

In any of these events or circumstances, the Contractor may, upon giving **28 days' notice** to the Employer (with a copy to the Engineer), terminate the Contract.

The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contract or otherwise.

7.83 Cessation of work and removal of Contractor's equipment

7.83.1 After a notice of termination under **GCC Clause No. 7.79 [Employer's entitlement to termination for convenience]**, **GCC Clause No. 7.82 [Termination by Contractor]** or **GCC Clause No. 7.90 [Optional termination, payment and release]** has taken effect, the Contractor shall promptly:

- a) cease all further work, except for such work as may be necessary and instructed by the Engineer for the purpose of making safe or protecting those parts of the work already executed and any work required to leave the site in a clean and safe condition.
- b) hand over all construction documents, Plant and Materials for which the Contractor has received payment.
- c) hand over those other parts of the Works executed by the Contractor up to the date of termination
- d) remove all Contractor's equipment, which is on the site and repatriate all their staff and labour from the site.

And

- e) remove all other goods from the site, except as necessary for safety, and leave the site.

Any such termination shall be without prejudice to any other right of the Contractor under the contract.

7.84 Payment on termination

7.84.1 After a notice of termination under **GCC Clause No. 7.82 [Termination by Contractor]** has taken effect, the Employer shall promptly:

- a) return the Performance Guarantee / Security Deposit to the Contractor
- b) pay the Contractor in accordance with **GCC Clause No. 7.90 [Optional termination, payment and release]** ,

And

- c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

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J. INSURANCE

7.85 General requirements for insurances

- 7.85.1 The contractor during the contract period shall provide for insurance of 110% of the contract value including manning upto the commissioning and taking over of the installation.

K. FORCE MAJEURE

7.86 Definition of Force Majeure

- 7.86.1 In this clause “**Force Majeure** “ means an exceptional event or circumstance

- a) which is beyond the control of the Employer and the Contractor,
- b) which such party (Employer / Contractor) could not reasonably have provided against before entering into the contract,
- c) which, having arisen, such party could not reasonably have avoided or overcome,

And

- d) which is not attributable to other party.

Force Majeure may include, but not limited to, exceptional events or circumstances of the kind listed below, so long as conditions a) to d) above are satisfied:

- i) **war, hostilities** (whether war be declared or not) , **invasion, act of foreign enemies;**
- ii) **rebellion, terrorism, sabotage by persons other than the Contractor’s personnel, revolution, insurrection , military or usurped power, or Civil War;**
- iii) **riot, commotion, disorder, strike or lockout by persons other than the Contractor’s personnel;**
- iv) **munitions of war, explosive materials, ionisation radiation or contamination by radio-activity,** except as may be attributable to the Contractor’s use of such munitions, explosives, radiations or radio-activity;
- v) **natural catastrophes** such as **earthquake, tsunami** (caused by earthquake at the ocean bed),**fire, floods, hurricane, cyclone, typhoon or volcanic activity,**

And

- vi) **pressure waves** caused by air craft or other aerial devices travelling at sonic or supersonic speed at the site of the work.

7.87 Notice of Force Majeure

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- 7.87.1 If a party is or will be prevented from performing its obligations under the Contract by Force Majeure, then it shall give notice to the other party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given **within 48 (forty eight) hours** of the alleged beginning of the relevant event or circumstance constituting Force Majeure, giving full particulars and satisfactory evidence.

The party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.

Notwithstanding any other provision of this clause, Force Majeure shall not apply to obligations of either party to make payments to the other party under the contract.

7.88 **Duty to minimise delay**

- 7.88.1 Each party shall at all times use all reasonable endeavours to minimise any delay in the performance of the contract as a result of Force Majeure.

A Party shall give notice to the other party when it ceases to be affected by the Force Majeure, **within 48 (forty eight) hours** of such ending.

7.89 **Consequences of Force Majeure**

- 7.89.1 If the Contractor is prevented from performing its substantial obligations under the Contract by Force Majeure of which notice has been given under **GCC Clause No. 7.87 [Notice of Force Majeure]**, and suffers delay and/or non-performance as per the contractual obligations, by reason of such Force Majeure, the Contractor shall be entitled, subject to **GCC Clause No. 7.91 [Engineer's decision]**, to:

- a) an extension of time for any such delay, if completion is or will be delayed, under **GCC Clause No. 7.69 [Extension of completion period and liquidated damage]**,

And

- b) non-imposition of penalty due to non-performance as per the contractual obligations.

After receiving this notice, the Engineer shall proceed in accordance with **GCC Clause No. 7.19 [Determinations]** to agree or determine these matters.

7.90 **Optional termination, payment and release**

- 7.90.1 If the execution of all the work in progress is prevented for a **continuous period of 84 days** by reason of **Force Majeure** of which notice has been given under **GCC Clause No. 7.87 [Notice of Force Majeure]**, or for **multiple periods which total more than 140 days** due to the same notified Force Majeure, then either party may give to the other party a notice of termination of the contract. In this event, the **termination shall take effect 7 days after the notice is given**, and the Contractor shall proceed in

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accordance with **GCC Clause No. 7.83 [Cessation of work and removal of Contractor's equipment]**.

Upon such termination, the Engineer shall determine the value of the work done and issue a payment certificate which shall include:

- a) The amounts payable for any work carried out for which a price is stated in the Contract;
- b) the cost of plant and materials ordered for the work which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery. Such Plant and Materials shall become the property of (and be at the risk of) the Employer when paid for by the Employer and the Contractor shall place the same at the Employer's disposal;
- c) any other cost or liability, which in the circumstances was reasonably incurred by the Contractor in the expectation of completing the Works;
- d) the **reasonable Cost** of removal of temporary work and Contractor's equipment from the site and the return of such items to the Contractor's premises,

And

- e) the reasonable cost of repatriation of the Contractor's staff and labour employed wholly in connection with the work at the date of such termination.

L. CLAIMS, DISPUTES AND ARBITRATION

7.91 Engineer's decision

- 7.91.1 If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with, or arising out of, the contract or the execution of the works, whether during the execution of the works or after their completion and whether before or after repudiation or other termination of the contract, including any dispute as to any opinion, instruction, determination certificate or valuation of the Engineer, the matter in dispute shall, in the first place, be referred, in writing, to the Engineer within **30 (thirty) days**, with a copy to the other party. Such reference shall state that it is made pursuant to this clause. No later than the **thirtieth day** after the day on which he received such reference, the Engineer shall give notice of his decision to the Employer and the Contractor. Such decision shall state that it is made pursuant to this clause.

Unless the contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the works with all due diligence and the Contractor and the Employer shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided, in an amicable settlement or an arbitral award.

If either the Employer or the Contractor be dissatisfied with any decision of the Engineer, or if the Engineer fails to give notice of his decision on or

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before the **thirtieth day** after the day on which he received the reference, then either the Employer or the Contractor may, on or before the **seventieth day** after the day on which he received notice of such decision, or on or before the seventieth day after the day on which the said period of thirty days expires, as the case may be, give notice to the other party, with a copy for information to the Engineer, of his intention to commence arbitration, as hereinafter provided, as to the matter in dispute. Such notice shall establish the entitlement of the party giving the same to commence arbitration, as hereinafter provided, as to such dispute and, subject to **GCC Clause No. 7.94 (Failure to comply with Engineer's decision)**, no arbitration in respect thereof may be commenced unless such notice is given.

If the Engineer has given notice of his decision as to a matter in dispute to the Employer and the Contractor and no notice of intention to commence arbitration as to such dispute has been given by either the Employer or the Contractor on or before the **seventieth day** after the day on which the parties received notice as to such decision from the Engineer, the said decision shall become final and binding upon the Employer and the Contractor.

7.92 Amicable settlement

- 7.92.1 Where notice of intention to commence arbitration as to a dispute has been given in accordance with **GCC Clause No. 7.91 (Engineer's decision)** above, both parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both parties agree otherwise, arbitration may be commenced on or **after the fifty-sixth day after the day on which a notice of intention to commence arbitration of such dispute was given**, even if no attempt at amicable settlement thereof has been made.

7.93 Arbitration

- 7.93.1 Any dispute in respect of which

- a) the decision, if any, of the Engineer, has not become final and binding pursuant to **GCC Clause No. 7.91 (Engineer's decision)** and
- b) amicable settlement has not been reached within the period stated in **GCC Clause No. 7.92 (Amicable settlement)**,

shall be finally settled by arbitration, in accordance with the **Arbitration and Conciliation Act, 1996 (considering its amendment in 2015)** or any statutory modification or re-enactment thereof and rules made there under and for the time being in force. The **Arbitration Tribunal** shall be composed as per provision of the **Arbitration and Conciliation Act, 1996 (considering its amendment in 2015)** or any statutory modification or re-enactment thereof and rules made there under and for the time being in force.

- 7.93.2 In connection with the instant contract:

- a) the place of arbitration shall be **Kolkata** or **Haldia**, West Bengal, India,
- b) the arbitration shall be conducted in **English language**,

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and

- c) the fees, if any, of the Arbitrators, if required to be paid before the award of work in respect to disputes is made and published, shall be shared equally by each of the parties

- 7.93.3 The Arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion, valuation or decision of the Engineer, relevant to the dispute. Nothing shall disqualify representatives of the parties and the Engineer from being called as a witness and giving evidence before the Arbitrators on any matter, whatsoever, relevant to the dispute.
- 7.93.4 Neither party shall be limited in the proceedings before such Arbitrators to the evidence or arguments put before the Engineer for the purpose of obtaining his said decision pursuant to **GCC Clause No. 7.91 (Engineer's decision)**. No such decision shall disqualify the Engineer from being called as a witness and giving evidence before the Arbitrators on any matter whatsoever relevant to the dispute.
- 7.93.5 Arbitration may be commenced prior to or after completion of the works, provided that the obligations of the Employer, the Engineer and the Contractor shall not be altered by reason of the arbitration being conducted during the progress of the works.

7.94 **Failure to comply with Engineer's decisions**

- 7.94.1 Whether neither the Employer nor the Contractor has given notice of intention to commence arbitration of dispute within the period stated in **GCC Clause No. 7.91 (Engineer's decision)** and the related decision has become final and binding, either party may, if the other party fails to comply with such decisions, and without prejudice to any other rights it may have, refer the failure to arbitration, in accordance with **GCC Clause No. 7.93 (Arbitration)**. The provision of **GCC Clause No. 7.91 (Engineer's decision)** and **GCC Clause No. 7.92 (Amicable settlement)** shall not apply to any such reference.

7.95 **Progress of work not to be interrupted**

- 7.95.1 The Contractor must, at all the times, fulfil their obligations under the contract and shall not slow down or stop the progress of work during the period any dispute is under settlement either through reference to the Engineer or through arbitration, pursuant to the preceding clauses. Even if the works to be carried out during such a period involve matters under dispute, the Contractor shall nevertheless proceed with the works as per direction of the Engineer, pending settlement of the dispute. Failure of the Contractor, in this respect, shall constitute default on their part and render them liable to actions under the provisions of **GCC Clause No. 7.76 [Termination by Employer]**.

SECTION – VIII

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following **Special Conditions of Contract (SCC)** shall supplement the **General Conditions of Contract (GCC)**. Whenever there is a conflict, the provisions herein shall prevail over those in the **GCC**.

Clause No. 7.20 Clause No. 7.20.1

**Performance
Guarantee /
Security Deposit**

- i) Performance Guarantee / Security Deposit for the materials, installations & workmanship, with respect to the instant work, as a whole:

Within **28 (twenty-eight) days** of issuance of “Letter of Acceptance (LOA)”, the Contractor shall have to provide an irrevocable and unconditional Bank Guarantee, from a Nationalized Bank/Scheduled Bank in India, in the amount, **10 %** of the contract value excluding GST .

This Performance Bank Guarantee should be kept valid and enforceable till a date, covering **at least 3 (three) months** beyond the date of expiry of the Defect Liability Period of the Contract job [for the materials, installations & workmanship, with respect to the instant work, as a whole] (as specified in **GCC**). In case the actual duration of the aforesaid Defect Liability Period is required to be extended, the validity of this Bank Guarantee shall have to be extended till a date, covering at least 3 (three) months beyond the date of expiry of such extended duration of the Defect Liability Period.

Failure of the Contractor to submit the aforesaid Performance Bank Guarantee and in the manner stated above, shall constitute sufficient grounds for termination of the contract and forfeiting the Earnest Money Deposit.

- ii) Performance Guarantee / Security Deposit for the 05 years Comprehensive Maintenance Contract (CMC), as a whole:

At least **28 (twenty-eight) days** before the scheduled expiry of the aforesaid Defect Liability Period of the Contract job [for the materials, installations & workmanship, with respect to the instant work, as a whole], or any extension thereof, the Contractor shall have to provide an irrevocable and unconditional Bank Guarantee, from a Nationalized Bank/Scheduled Bank in India, in the amount, **10 %** of CMC value (for 05 years , after expiry of Defect Liability Period] excluding GST.

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This Performance Bank Guarantee should be kept valid and enforceable till a date, covering **at least 3 (three) months** beyond the date of expiry of the CMC Period (as specified in **GCC**).

Failure of the Contractor to submit the aforesaid Performance Bank Guarantee and in the manner stated above, shall constitute sufficient grounds for forfeiting the Performance Bank Guarantee mentioned in **SCC Clause No. 7.20.1 i)**.

Clause No. 7.20.11

The procedure of release / refund of Performance Guarantee / Security Deposit would be as follows:

- i) Performance Guarantee / Security Deposit for the materials, installations & workmanship, with respect to the instant work , as a whole:

On submission of Performance Guarantee/Security Deposit [as stated in **SCC Clause No. 7.20.1 ii)**] and on successful completion of the 'Defect liability period' (considering extension, if any) of the Contract job [for the materials, installations & workmanship, with respect to the instant work, as a whole] (as specified in **GCC**), the Contractor may apply for release / refund of his Performance Guarantee/Security Deposit [as stated in **SCC Clause No. 7.20.1 i)**] by submitting an application to the Engineer, in this regard, whereupon the Engineer shall issue necessary recommendation for release of the said Performance Guarantee/Security Deposit [as stated in **SCC Clause No. 7.20.1 i)**] or refund the balance due against the Performance Guarantee/Security Deposit [as stated in **SCC Clause No. 7.20.1 i)**] to the Contractor, after making deduction therefrom in respect of any sum due to the Trustees from the Contractor.

- ii) Performance Guarantee / Security Deposit for the 05 years Comprehensive Maintenance Contract (CMC), as a whole:

On successful completion of the CMC Period (considering extension, if any), to the satisfaction of the Engineer, the Contractor may apply for release / refund of his Performance Guarantee / Security Deposit [as stated in **SCC Clause No. 7.20.1 ii)**] by submitting to the Engineer "No Claim Certificate", as per the form furnished in Section-XI, whereupon the Engineer shall issue "Certificate of Final Completion" [as per the form furnished in Section-XI] . The Engineer shall also issue necessary recommendation for release of the said Performance Guarantee/Security Deposit [as stated in **SCC Clause No. 7.20.1 ii)**] or refund the balance due against the Performance Guarantee/Security Deposit [as stated in **SCC Clause No. 7.20.1 ii)**] to the Contractor, after making deduction therefrom in respect of any sum due to the Trustees from the Contractor.

Clause No. 7.26 **Clause No. 7.26.1**

Supply of water and Electricity

Supply of water:

Billing against supply of water will be done on the basis of actual consumption recorded through water meter at the rate **INR 38.65 (including overhead charges @ 19.25%) per KL of Fresh Water** [As directed by **TAMP (Tariff**

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Authority for Major Ports)], with escalation @ 5% per annum.

The **water consumption charges** [based on the prevalent rates of KoPT, as may be amended from time to time] shall have to be paid by the Contractor immediately, on receipt of the bill from the office of the Finance Division, Haldia Dock Complex. All payment on this account should be updated, otherwise the pending bill amount, along with late payment surcharge, will be recovered from the Contractor's bill(s).

Clause No. 7.26.2

Supply of Electricity:

Electricity charges will be determined on the basis of **Chargeable Unit (kWh)** [actual **Unit (kWh) consumed** (recorded through Energy Meter) **plus 3%** on actual Unit consumed] and applicable rate of **West Bengal State Electricity Distribution Company Limited (WBSEDCL)**. Billing will be done on the basis of **Electricity charges** and overhead charges @ 19.25% [on the aforesaid **Electricity charges**] as per the notifications of **Tariff Authority of Major Ports (TAMP)**.

The **Electricity consumption charges** [based on the prevalent rates of **WBSEDCL**, as may be amended from time to time] shall have to be paid by the Contractor immediately, on receipt of the bill from the office of Finance Division, Haldia Dock Complex. All payment on this account should be updated, otherwise the pending bill amount, along with late payment surcharge, will be recovered from the Contractor's bill(s).

Clause No. 7.52 **Clause No. 7.52.1**

Inspection and testing

The Employer shall appoint a **Third Party Inspection Agency**, at the cost of the Employer, for stage-wise technical inspection and certification of **materials & workmanship**, including **painting, erection, commissioning**, etc. [in connection with commissioning of DG Set & HT Installations]. The relevant Certificates shall be produced by the **Third Party Inspection Agency** to the Engineer or his authorised Representative.

The stage-wise technical inspection will be carried out by the **Third Party Inspection Agency** based on the approved **Quality Assurance Plan (QAP) & Field Quality Assurance Plan (FQAP)** [considering the Technical Specification of the bidding documents].

The Contractor shall have to submit a **Quality Assurance Plan (QAP)** and a **Field Quality Assurance Plan (FQAP)**, based on the Technical Specification and other terms & conditions stipulated in the bidding documents. The **QAP & FQAP** shall be approved by the "**Engineer**", after the same are duly recommended by the **Third Party Inspection Agency**. The **Technical Inspection & Certification** will be carried out by the **Third Party Inspection Agency**, in accordance with approved **QAP & FQAP**.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

In all cases where tests are required, within the purview of QAP & FQAP, whether at the premises of the Contractor or any Sub-contractor or elsewhere, the Contractor, except where otherwise specified, shall provide free of charges such labour, materials, electricity, fuel, water, stores, apparatus and instruments, as may reasonably be demanded, to carry out sufficiently such tests and shall, at all times, facilitate the Engineer or his Representative and the Third Party Inspection Agency, to accomplish such testing.

The cost of all tests and/or analyses, within the purview of QAP & FQAP, effected at the Contractor's or Sub-contractor's works and on the site, shall be borne by the Contractor. The Contractor will be called upon to pay all expenses incurred by the Employer in respect of any work found to be defective or of inferior quality, adulterated or otherwise unacceptable.

If, during inspection by the **Third Party Inspection Agency [appointed by KoPT]**, any material or test [within the purview of QAP & FQAP] fails to fulfil the contract conditions for **more than 2 (two) times**, **any additional amount charged by the Third Party Inspection Agency towards inspection of the same from the 3rd time onwards shall have to be borne by the Contractor**. If the Contractor fails to make such payment to the **Third Party Inspection Agency**, the same shall be deducted from the bill(s) of the Contractor and paid to the **Third Party Inspection Agency**.

Clause No. 7.52.12

Tests on completion:

On **completion of installation**, the contractor shall give a **7 (seven) days'** notice to the Engineer [with a copy to the **Third Party Inspection Agency, appointed by KoPT**], in writing (informing the date on which they will be ready to make the tests), before carrying out such tests, in accordance with and in the manner prescribed in the specifications.

If any portion of work fails under the tests to fulfil the contract conditions, tests of the faulty portion shall, if required by the **Third Party Inspection Agency (appointed by KoPT)** or the Engineer or by the Contractor, be repeated within reasonable time, upon the same terms and conditions.

If such **"Tests on completion"** cannot be carried out successfully by the Contractor within 1 (one) month after the time fixed by the Contractor and if, in opinion of the Engineer, the tests are being unduly delayed, the Engineer may, in writing, call upon the Contractor, with 7 (seven) days' notice, to make such tests, failing which the Engineer may proceed to make such tests himself, at the Contractor's risk and expense. In the above eventuality, the Employer shall, nevertheless, have the right of using the installations at the Contractor's risk until the **"Tests on completion"** are successfully carried out.

<i>Clause No. 7.65</i>	<u>Clause No. 7.65.1</u>
Completion Period	All the jobs, as per contract, are to be completed within 09 (Nine) months from the date of issue of Letter of Acceptance (LOA) [i.e. award of contract].
	<u>Maintenance Period :</u> Maintenance Period shall start from the date of taking over the Contract job [as per GCC (Taking over of the Contract job by KoPT)] and will continue till expiry of Comprehensive Maintenance Period of 05 years , calculated from the date of expiry of the “Defect Liability Period”.
<i>Clause No. 7.67</i>	<u>Clause No. 7.67.1</u>
Defect Liability Period (DLP)	<u>“Defect Liability Period” of the Contract job:</u> “Defect Liability Period” of the Contract job [for the materials, installations & workmanship, with respect to the commissioning of the DG set & HT Installations] shall mean the Guarantee Period, which starts from the date of taking over the D G Set & HT Installation [as per GCC (Taking over of the Contract job by KoPT)] and will continue till expiry of 24 (twenty-four) months, calculated from the date of taking over the Contract job.
<i>Clause No. 7.68</i>	<u>Clause No. 7.68.1</u>
Defects after taking over	After the taking over of the Contract job, if the same cannot be used (for the purpose for which it is intended), during any period, by the reason of a defect or damage, the Defect Liability Period shall be extended accordingly. If only a portion of the Contract job is affected, the Defect Liability Period shall be extended [in case the defects is not rectified or defective materials is not replaced within 24 (twenty four) hours of its occurrence] only for that portion, provided the other portions of the Contract job remains in order, fulfilling contract conditions. In neither case shall the Defect Liability Period be extended beyond 36 (thirty-six) months [from the date of taking over the Contract job] for the materials, installations & workmanship, with respect to the instant job, as a whole.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

**Terms of
payment**

Payment to the Successful Bidder will be made stage-wise as indicated below :-

a) **Against Supply & Delivery :**

- i) Payment for 70% amount of each item will be made against supply of respective item at site and submission of bills along with Custodian Certificate and other relevant documents like Inspection Reports, Challans, etc.
- ii) Payment for 20% amount of each item will be made against installation of the respective item and submission of bills along with Installation Certificate.
- iii) Payment for 10 % amount will be made against Testing, successful commissioning, taking over the commissioned job by KoPT and submission of bills, along with Job Completion Certificate.

b) **Against Installation and Commissioning :**

- i) Payment for 90% amount of each item will be made against installation of the respective item and submission of bills along with Installation Certificate.
- ii) Payment for 10 % amount will be made against Testing, successful commissioning, taking over the commissioned job by KoPT and submission of bills, along with Job Completion Certificate.

c) **Against Maintenance:**

Payment shall be made on quarterly basis during Comprehensive Maintenance Contract (CMC) Period of 05 years.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

SECTION – IX

BIDDING FORMS

BIDDING FORM – I

MINIMUM ELIGIBILITY CRITERIA

[To be filled up and uploaded, duly signed & stamped]

(I) ANNUAL TURNOVER STATEMENT

The annual turnover of(name of the bidding firm), **for the years 2016-17 , 2017-18 and 2018-19** , based on the **Balance Sheets and Profit & Loss Accounts**, are given below:

Financial years	Turnover (as per Auditor's Report / Balance Sheet) [in ₹]
2016-2017	
2017-2018	
2018-2019	
<i>Total</i>	
<i>Average Annual Turnover</i>	

SIGNATURE OF CHARTERED ACCOUNTANT ::

NAME OF CHARTERED ACCOUNTANT ::

(COMPANY SEAL)

NOTE : Copy of Balance Sheets and Profit & Loss Accounts enclosed with sealed & signed.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

(II) **TECHNICAL EXPERIENCE**

Sl. No.	Contract No. / Order No. and date	Name of the Employer and Place of work	Contract value [in ₹]	Date of completion of work	Page number(s) of reference / supporting document (s), uploaded.

(III) **ELECTRICAL CONTRACTOR'S LICENSE ISSUED IN THE NAME OF CONTRACTOR BY STATE / CENTRAL GOVT. AUTHORITY**

<u>Date & issue</u>	:	
<u>Validity Upto</u>	:	

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

BIDDING FORM-II**LIST OF DOCUMENTS**

[To be filled up and uploaded, duly signed & stamped]

	Requirement	Submitted/Not submitted [Put √ if submitted & X if not submitted]	Validity/ For the month of
a)			
i)	GST Registration Certificate.	<input type="text"/> If submitted, Page Number(s):	Not applicable.
ii)	Document in support of non-applicability.	<input type="text"/> If submitted, Page Number(s):	Not applicable.
b)			
i)	Profession Tax Clearance Certificate (PTCC)	<input type="text"/> If submitted, Page Number(s):	
	<u>OR</u> Profession Tax Payment Challan (PTPC)	<input type="text"/> If submitted, Page Number(s):	
ii)	Document in support of non-applicability.	<input type="text"/> If submitted, Page Number(s):	Not applicable.
c)			
i)	Certificate for allotment of EPF Code No.	<input type="text"/> If submitted, Code No.: Page Number(s):	Not applicable.
ii)	Latest EPF Payment Challan.	<input type="text"/> If submitted, Page Number(s):	
iii)	Document in support of non-applicability.	<input type="text"/> If submitted, Page Number(s):	Not applicable.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

d)				
i)	Registration Certificate of ESI Authority.	<input type="text"/>	If submitted, Code No.: Page Number(s):	Not applicable.
ii)	Affidavit, Declaration and Indemnity Certificate.	<input type="text"/>	If submitted, Page Number(s):	Not applicable.
e)	PAN Card	<input type="text"/>	If submitted, PAN No.: Page Number(s):	Not applicable.
f)	MSME / MSE / DIC / SSI / NSIC certificate	<input type="text"/>	If submitted, Page Number(s):	
g)	Power of Attorney	<input type="text"/>	If submitted, Page Number(s):	Not applicable.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

BIDDING FORM-III**GENERAL INFORMATION OF THE BIDDER**

[To be filled up and uploaded, duly signed & stamped]

1.	Bidder's Legal Name (IN CAPITAL LETTERS)		
2.	a)	Country of registration.	
	b)	Year of registration.	
	c)	Legal address in country of registration.	
	d)	URL of the bidder.	
3.	Information regarding bidder's authorised representative(s) / contact person(s)		
	a)	Name(s)	
	b)	Address(es)	
	c)	Telephone number(s)	
	d)	Facsimile number(s)	
	e)	Electronic mail address	

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

4.	a)	Address of the branch office, if any	
	b)	Name of the contact person at branch office	
	c)	Telephone number(s)	
	d)	Facsimile number(s)	
	e)	Electronic mail address	
5.	Whether the bidder is a Proprietorship Firm or Partnership Firm or Limited Company .		
6.	Details of the Banker(s) :		
	a)	Name of the Banker(s) in full.	
	b)	Address(es) of the Banker(s)	
	c)	Telephone number(s)	
	d)	Facsimile number(s)	
	e)	Electronic mail address	
	f)	Name(s) of the contact person(s)	
7.	Bank details for ECS payment :		
	a)	Bank Account number.	
	b)	Name of the bank.	
	c)	Name of the branch.	
	d)	Address of the branch.	
	e)	RTGS code of the branch.	
	f)	MICR code of the branch.	

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

8.	Income Tax and Goods & Services Tax (GST) details (if applicable):		
	a)	Permanent Account Number (PAN)	
	b)	GST Registration Number (GSTIN)	
9.	Employees' Provident Fund (EPF) Code No.		
10.	Employees' State Insurance (ESI) Code No.		
11.	Mainlines of business		

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

BIDDING FORM-IV

FORMAT FOR DECLARATION

[To be printed on the bidder's Letter Head and uploaded after signing]

To,
General Manager (Engg.)
Haldia Dock Complex ;
Kolkata Port Trust.

Name of Work: "Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT".

Tender No. : SDM(P&E)/T/45/2019-2020

E-Tender No.: KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27

I, the authorized signatory of the (Name of the Company /Firm) do hereby declare / confirm that :

* I / We have not been **debarred**, **banned** or **delisted** by any Government or Quasi-Government Agencies or Public Sector Undertakings in India.

I / we have not made any **addition** / **modification** / **alteration** in the **Bidding Documents** (including Bidding Forms & Contract Forms) hosted in the websites.

The prices have been quoted in the Price Bid, electronically, through the website of MSTC Ltd. only and no direct or indirect mention of the prices has been made by me / us anywhere else in my / our bid.

No extraneous conditions (like "Not Applicable", conditional rebate, etc.), regarding the Price Bid, have been mentioned anywhere in our bid.

**Signature of authorised person of the
bidder
(with office seal)**

* In case the **firm** has been debarred or banned or delisted by any Government or Quasi-Government Agencies or Public Sector Undertaking in India, then the same should be declared properly, after modifying the sentence, suitably.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

BIDDING FORM-V

FORM OF TENDER

[To be printed on the bidder's Letter Head and uploaded after signing]

To,
General Manager (Engg.)
Haldia Dock Complex ;
Kolkata Port Trust.

Name of Work : “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.

Tender No. : SDM(P&E)/T/45/2019-2020

E-Tender No.: KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27

I/We (Name of the bidder)of(Address of the bidder) having **examined the site of work, inspected the drawings** and read the **bidding documents** [including **all addenda / corrigenda**, issued i.e. {insert Addendum / Corrigendum / Extension No(s)}], hereby bid and undertake to execute & complete all the work related to “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. *for Lock Entrance at Haldia Dock Complex, KoPT*.”, required to be performed in accordance with the **Technical Specification, General Conditions of Contract (GCC), Special Conditions of Contract (SCC)**, etc., at the **rates & prices** quoted in the **Price Bid** [*submitted electronically, through the website of MSTC Ltd.*], within 05 month from the date of order to commence the work , in the event of our bid being accepted.

I/we also undertake to enter into a **Contract Agreement** in the form hereto annexed [**Section XI**] with such alterations or additions thereto, which may be necessary to give effect to the acceptance of the bid and incorporating such **Technical Specification, General Conditions of Contract (GCC), Special Conditions of Contract (SCC)**, etc. and I/we hereby agree that until such **contract agreement** is executed, the said **Technical Specification, General Conditions of Contract (GCC), Special Conditions of Contract (SCC)**, etc. and the bid, together with the acceptance thereof in writing, by or on behalf of the Employer, shall be the contract.

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

I / We have deposited ₹ 8,83,974.00 (Indian Rupees: Eight lakh eighty-three thousand nine hundred seventy four) only using the Axis Bank Payment Gateway, vide URN No.:..... of, as Earnest Money Deposit.

I/We agree that the period for which the bid shall remain open for acceptance, shall not be less than 120 days, from the last date of submission of bid.

(Signature of authorised person of the bidder)

WITNESS:

Signature:

Name : _____

Name:

(In Block Letters)

Designation : _____

Address:

Date : _____

Occupation:

(Office Seal)

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

BIDDING FORM-VI**PRICE SCHEDULE**

[To be filled up and uploaded, duly signed & stamped]

Tender No. : SDM(P&E)/T/45/2019-2020**PART : A**

Sl. No.	Description of the work	Unit	Qty	Applicable GST %		
				SGST	CGST	IGST
1	Supply & Installation of outdoor type 3.3 kV, 1500 r.p.m., 3 Phase, 50Hz , 1010 kVA acoustic enclosure Diesel Generator Set complete with all accessories including power pack (battery + charger) as detailed in 'Technical Specification'.					
	a) Supply	Set	1			
	b) Installation, Testing & Commissioning	Set	1			
2	Supply & Installation of Microprocessor / PLC based Auto-Mains failure (AMF) panel with distribution cubicle switchboard, including all accessories, as detailed in 'Technical Specification'.					
	a) Supply	Set	1			
	b) Installation, Testing & Commissioning	Set	1			
3	Supply & Laying of HT 3.3KV (UE) grade 1C X 630 mm ² , PVC insulated XLPE, Aluminium armoured type Power Cable [from DG Set to AMF panel and AMF panel to Load distribution panel (VCB)], as detailed in 'Technical Specification'.					
	a) Supply	m	200			
	b) Laying, Testing & Commissioning	m	200			
4	Supply & Installation of HT 3.3 kV Heat shrinkable type end termination kits suitable for 3.3KV (UE) grade 1C X 630 mm ² , PVC insulated XLPE, Aluminium armoured type Power Cable.					
	a) Supply	No.	16			
	b) End termination, Testing & Commissioning	No.	16			

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Sl. No .	Description of the work	Unit	Qty	Applicable GST %		
				SGST	CGST	IGST
5	Supply & Installation of Control cable (XLPE, 1.1 kV grade, PVC insulated copper armoured cable) with terminations for the said cable.					
	a) Supply					
	i) 4C X 2.5 mm ²	m	50			
	ii) 24C X 2.5 mm ²	m	50			
	iii) 2C X 2.5 mm ²	m	50			
	iv) 2C X 4 mm ²	m	50			
	b) Laying, Testing & Commissioning					
	i) 4C X 2.5 mm ²	m	50			
	ii) 24C X 2.5 mm ²	m	50			
	iii) 2C X 2.5 mm ²	m	50			
	iv) 2C X 4 mm ²	m	50			
6	Making of suitable civil (PCC) foundation with base frame for installation of acoustic enclosure (with 1010 kVA D.G. set) , including construct of uniform platform of size 8 m X 3m X 1 m, as detailed in 'Technical Specification'.	LS	1			
7	Supply & Installation of 24 V DC system consisting of 180 AH batteries (including connection leads), 360 AH Battery charger unit & 24 V DCDB, as per Technical Specification.					
	a) Supply	Set	1			
	b) Installation, Testing & Commissioning	Set	1			
8	Providing earthing system for the DG set, using size 600 mm X 600 mm X 3.15 mm Copper flat plate buried in ground in a depth of 2 m. from ground level with alternate layer of charcoal & salt, including supply & fixing of 40 mm dia perforated GI pipe funneling for watering purpose and construction of masonry pit with metal cover, as per IS: 3043 as detailed in 'Technical Specification'.	Set	4			
	a) Supply	Set	4			
	b) Installation, Testing & Commissioning	Set	4			
9	Supply and Installation of Hot Dip Galvanized (100 micron) flats of size 50 mm X 6 mm for earthing connections, as per Technical specification.					

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Sl. No.	Description of the work	Unit	Qty	Applicable GST %		
				SGST	CGST	IGST
	a) Supply	m	100			
	b) Installation, Testing & Commissioning	m	100			
Total amount of Part - A						

PART : B

Sl. No.	Description of the work	Unit	Qty	Applicable GST %		
				SGST	CGST	IGST
1	Supply & Installation of HT 3.3 kV, 1250 A, 25 kA Vacuum Circuit Breaker (VCB) panel , as per the details given in TABLE – I of “Technical Specification”					
	a) Supply					
	For Lock Substation	Set	13			
	For Machinery House, MH-1 [outer]	Set	4			
	For Machinery House, MH-2 [intermediate]	Set	4			
	For Machinery House, MH-3 [inner]	Set	5			
	For Impounding Pump House	Set	5			
	b) Installation, Testing & Commissioning					
	For Lock Substation (with 13 nos. VCB)	Set	13			
	For Machinery House, MH-1 [outer]	Set	4			
	For Machinery House, MH-2 [intermediate]	Set	4			
	For Machinery House, MH-3 [inner]	Set	5			
	For Impounding Pump House	Set	5			
2	Supply & Laying of HT 3.3 kV Grade aluminum conductor, armoured XLPE UG cable as IS : 7098 Part – II and as per Technical Specification.					
	a) Supply					
	i) 3C x 185 mm ²	m	500			

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Sl. No.	Description of the work	Unit	Qty	Applicable GST %		
				SGST	CGST	IGST
	ii) 3C x 95 mm ²	m	500			
	b) Laying, Testing and Commissioning of					
	i) 3C x 185 mm ²	m	500			
	ii) 3C x 95 mm ²	m	500			
3	Supply & Installation of HT 3.3 kV Heat shrinkable type end termination kits suitable for aluminum, XLPE / PVC armoured UG cable.					
	a) Supply					
	i) 3C X 400 mm ²	No.	4			
	ii) 3C X 240 mm ²	No.	1			
	iii) 3C X 150 mm ²	No.	3			
	iv) 3C X 120 mm ²	No.	2			
	v) 3C X 95 mm ²	No.	8			
	b) End termination, Testing & Commissioning					
	i) 3C X 400 mm ²	No.	4			
	ii) 3C X 240 mm ²	No.	1			
	iii) 3C X 150 mm ²	No.	3			
	iv) 3C X 120 mm ²	No.	2			
	v) 3C X 95 mm ²	No.	8			
4	Providing earthing system for the 3.3 kV panel , using size 600 mm X 600 mm X 3.15 mm Copper flat plate buried in ground in a depth of 2 m. from ground level with alternate layer of charcoal & salt, including supply & fixing of 40 mm dia perforated GI pipe funneling for watering purpose and construction of masonry pit with metal cover, as per IS: 3043 as detailed in 'Technical Specification'.					
	a) Supply	Set	2			
	b) Installation, Testing & Commissioning	Set	2			
5	Supply and Installation of Hot Dip Galvanized (100 micron) flats of size 50 X 6 mm for earthing connections, as per Technical specification.					
	a) Supply	m	100			
	b) Installation, Testing & Commissioning	m	100			

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

6	Supply & installation of safety equipments like HT (3.3 kV grade) rubber mats, CO ₂ fire extinguishers, First Aid box, etc. as per CEA norms, for all substations.	Set	01			
7	Special tool box (Taparia Make) for maintenance of VCB Panels .	Set	01			
8	Removal / dismantling, loading / unloading, transporting of existing BOCBs (11 nos.) and depositing the same at the store of HDC.	LS	01			
Total amount of Part - B						

PART : C

Sl. No.	Description of the work	Unit	Qty	Applicable GST %		
				SGST	CGST	IGST
1.	Comprehensive Maintenance Contract with full responsibility of carrying out repair and supply of required original spare parts to keep the DG set in fully operational condition for a period of 5 years, after expiry of 2 years Guarantee period (including manning).					
a)	1st year guarantee period	LS	1			
b)	2nd year guarantee period	LS	1			
c)	1st year CMC	LS	1			
d)	2nd year CMC	LS	1			
e)	3rd year CMC	LS	1			
f)	4th year CMC	LS	1			
g)	5th year CMC	LS	1			
Total amount of Part - C						
Net Total = Total of (Part-A) + (Part – B) + (Part – C)						

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

SECTION - X

CHECKLIST

Tender No. : **SDM(P&E)/T/45/2019-2020**

Before scanning and upload the following required documents, all pages are to be signed by a person duly authorised to sign on behalf of the bidder, and are to be embossed with their official seal, owing responsibility for their correctness / authenticity. All pages of the aforesaid documents should be serially marked.

*The offered prices would be given in the “**Price Bid (Part-II)**” electronically, through the website of **MSTC Ltd.** only.*

Sl. No.	Particulars	Submitted/ Not submitted [Put ✓ if submitted and put X if not submitted]	If submitted, page numbers
1.	Filled up checklist.	<input type="checkbox"/>	<input type="checkbox"/>
2.	Proof of Bid Document Fee .	<input type="checkbox"/>	<input type="checkbox"/>
3.	Proof of Earnest Money Deposit (EMD) .	<input type="checkbox"/>	<input type="checkbox"/>
4.	Certificate of getting benefit by MSME / SSI / NSIC for exemption of Bid Document Fee and Earnest Money ,	<input type="checkbox"/>	<input type="checkbox"/>
5.	Bidding Forms		
	i) Bidding Form – I	<input type="checkbox"/>	<input type="checkbox"/>
	ii) Bidding Form – II	<input type="checkbox"/>	<input type="checkbox"/>

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Sl. No.	Particulars		Submitted/ Not submitted [Put ✓ if submitted and put X if not submitted]	If submitted, <u>page numbers</u>
	iii)	Bidding Form – III	<input type="checkbox"/>	<input type="checkbox"/>
	iv)	Bidding Form – IV	<input type="checkbox"/>	<input type="checkbox"/>
	v)	Bidding Form – V	<input type="checkbox"/>	<input type="checkbox"/>
	vi)	Bidding Form – VI	<input type="checkbox"/>	<input type="checkbox"/>

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

SECTION – XI
CONTRACT FORMS

FORM OF AGREEMENT

(To be submitted on Non- Stamp Paper of worth not less than INR 50.00)

CONTRACT NO. : GM(E)/...../ /AGMT/...../.....

TENDER REFERENCE:

Tender No. : ***SDM(P&E)/T/45/2019-2020***

E- Tender No. : **KoPT/Haldia Dock Complex/P&E Div/8/19-20/ET/27**

for

“Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.

ORDER REFERENCE: /...../ /O-... dated

This agreement made this day of , Two thousand

BETWEEN

The Board of Trustees for the Port of Kolkata, a body corporate -- constituted by the Major Port Trust Act, 1963 (hereinafter called the ‘**Trustees**’, which expression shall unless excluded by or repugnant to the context be deemed to include their successors in office) of the one part

AND

..... (hereinafter called the “**Contractor**”, which expression shall unless excluded by or repugnant to the context be deemed to include its heirs, executors, administrators, representatives and assignees or successors in office) of the other part

[Together hereinafter the “**Parties**”]

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

WHEREAS

The Trustees are desirous that certain works should be executed by the Contractor, viz. Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & **Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT**” and have accepted a Bid / offer by the Contractor for execution, completion and maintenance of such works, including remedying any defects therein, during the Defect Liability Period.

NOW THIS AGREEMENT WITNESSETH as follows :

1. In this agreement words and expression shall have the same meanings as are respectively assigned to them in **Conditions of Contract** hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this agreement :
 - a) The said bid / offer.
 - b) The Letter of Acceptance of the bid /offer [vide Order No./ 1035/...../O- ... dated]
 - c) The Conditions of Contract and **Technical Specification** [all terms and conditions of Tender No. : SDM(P&E)/T/45/2019-2020].
 - d) Addenda [Please insert Addenda Nos.]
 - e) “Price Comparative Statement”, showing the prices quoted (electronically, through the website of MSTC Ltd.) by the Successful Bidder, in the Price Bid.
 - f) All correspondence, by which the contract is added, amended, varied or modified, in any way, by mutual consent.
3. In Consideration of the payments to be made by the Trustees to the Contractor as hereinafter mentioned, the Contractor hereby covenant with the Trustees to execute, complete & maintain the work, including remedy any defects therein (during the Defect Liability Period”), in conformity with the provisions of the Contract, in all respects.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed the day and year first before written.

The parties hereunto affixed their respective Common Seals (or have hereunto set their respective hands and seals).

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

For and on behalf of

HALDIA DOCK COMPLEX
KOLKATA PORT TRUST
(TRUSTEES)

SEAL

In presence of

For and on behalf of

(CONTRACTOR)

SEAL

In presence of

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

INDEMNITY BOND

[To be submitted on Non-judicial Stamp Paper of worth not less than INR .50.00, **duly notarised**]

Reference:

Order No.:/...../...../O-... dated for “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.

**General Manager (Engg.)
Haldia Dock Complex ;
Kolkata Port Trust.**

This deed of **Indemnity Bond** made on by having their office at (hereinafter called “the **Contractor**”).

Whereas the General Manager (Engineering), **Haldia Dock Complex, Kolkata Port Trust**, Dist.: Purba Medinipur, West Bengal (hereinafter call “the **Engineer**”) has placed an order, bearing no. //...../O-... dated and some materials, spare parts, components, sub-assemblies, etc. are required to be taken **outside** of **Haldia Dock Complex** premises for some specialized servicing, repairing, overhauling, etc. or **fault diagnosis & remedial measures** by the Contractor, as per the terms & conditions mentioned in the said order, and which have been mutually agreed upon by the parties hereto,

AND

Whereas in consideration of the said contract, the Contractor has agreed to execute an **Indemnity Bond** for the safe custody on receipt of the said materials, spare parts, components, sub-assemblies, etc., from the **Engineer** until the **completion of servicing / overhauling / repairing / remedial work** and returning back to the Engineer as hereinafter appearing.

Now this deed witnessed that in pursuance of the said agreement and in the premises, the Contractor agrees to indemnify Engineer and at all the terms, to hold themselves liable for all the **damages, loss due to pilferage / fire** or negligence on the part of the Contractor or their employees, agents and representatives or from whatever cause, with all losses, interest charges and expenses incurred by the said Engineer on account of the material(s) issued to the Contractor,

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

AND

It is in terms of the said contract and this **Deed of Indemnity**, the material(s) issued free to the Contractor for servicing / overhauling / repairing / **fault diagnosis & remedial work**, thereon shall be deemed to be the **property of the Engineer**.

It is hereby agreed that the Contractor shall be liable for all injury, losses and damages that may be caused to the, from whatever cause and further that the Contractor shall not part with or delivery possession of the said material(s) to any other party or person, save in compliance with and in performance & provision of contract in respect of which this **Indemnity Bond** is executed, the Contractor having undertaken to delivery the said material (s) in all respect in compliance with the terms of the contract.

This bond and the trust hereby created shall remain valid and binding on the Contractor till such time as the above said order has been fully and finally executed and Contractor has delivered the complete thereon to the Engineer under the terms of the contract.

For and on behalf of (name of the Contractor), under the common seal of the company.

WITNESS

(Signature of the authorised person on behalf of the Contractor)

Name :

(Signature)

Designation

Name :

Designation

Signed in my presence and identified by me

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

BANK GUARANTEE FOR PERFORMANCE GUARANTEE

[To be submitted on Non-judicial Stamp Paper of worth not less than INR 50.00]

To
The Board of Trustees,
for the Port of Kolkata.

BANK GUARANTEE NO..... DATE.....

Name of Issuing Bank.....

Name of Branch.....

Address.....

In consideration of the **Board of Trustees for the Port of Kolkata**, a body corporate – duly constituted under the Major Port Trusts Act, 1963 (Act 38 of 1963), (hereinafter referred to as “**The Trustees**”) having awarded to Shri / Messrs a Proprietary/ Partnership/Limited / Registered Company, having its Registered Office at (hereinafter referred to as “**The Contractor**”, which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, executors and assigns), a **CONTRACT** by issue of Trustees’ Work Order No. //...../O-.... dated for Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & g & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT” and the same having been unequivocally accepted by the Contractor resulting in a **CONTRACT** bearing No./...../ /AGMT/...../..... and the Contractor having agreed to provide a **BANK GUARANTEE** from a Nationalized / Scheduled Bank of India, in prescribed format for ₹ (**Indian Rupees**) only, for the faithful and satisfactory performance of the entire contract .

We, ... Branch, Kolkata/Haldia, do, on the advice of the Contractor, hereby undertake to indemnify and keep indemnified the Trustees to the extent of the said sum of ₹ (**Indian Rupees**) only. We, Branch, Kolkata ... /Haldia, further agree that if a written demand is made by the Trustees through any of its officials for honouring the Bank Guarantee constituted by these presents, we, Branch, Kolkata/Haldia, shall have no right to decline to cash the same for any reason whatsoever and shall cash the same and pay the sum so demanded to the Trustees within a week from the date of such demand by an A/c Payee Banker's Cheque drawn in favour of "Kolkata Port Trust", without any demur. Even if there be any dispute between the Contractor and the Trustees, this would be no ground for us, (Name of Bank),

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

..... Branch, Kolkata/Haldia, to decline to honour the Bank Guarantee in the manner aforesaid. The very fact that we, Branch, Kolkata...../Haldia, decline or fail or neglect to honour the Bank Guarantee in the manner aforesaid, shall constitute sufficient reason for the Trustees to enforce the Bank Guarantee unconditionally without any reference, whatsoever, to the Contractor.

2. We, Branch, Kolkata/Haldia, further agree that a mere demand by the Trustees at anytime and in the manner aforesaid, is sufficient for us, Branch, Kolkata/Haldia, to pay the amount covered by this Bank Guarantee in full and in the manner aforesaid and within the time aforesaid without reference to the Contractor and no protest by the Contractor, made either directly or indirectly or through court, can be valid ground for us, Branch, Kolkata/Haldia, to decline or fail or neglect to make payment to the Trustees in the manner and within the time aforesaid.
3. We,..... Branch, Kolkata/Haldia, further agree that the Bank Guarantee herein contained shall remain in full force and effect, during the period that is taken for the due performance of the said contract by the Contractor and that it shall continue to be enforceable till all the dues of the Trustees under and/or by virtue of the terms and conditions of the said contract, have been fully paid and its claim satisfied and/or discharged in full and/or till the Trustees certify that the terms and conditions of the said contract have been fully and properly observed/fulfilled by the Contractor and accordingly, the Trustees have discharged the Bank Guarantee, subject however, that this guarantee shall remain valid upto and inclusive ofday of..... ..200.....and subject all so that the provision that the Trustees shall have no right to demand payment against this guarantee after the expiry of 6 (six) calendar months from the expiry of the aforesaid validity period upto.....or any extension thereof made by us, Branch, Kolkata...../Haldia, in further extending the said validity period of this Bank Guarantee on Non-judicial Stamp Paper of appropriate value, as required / determined by the Trustees, only on a written request by the Trustees to the Contractor for such extension of validity of this Bank Guarantee.
4. We, .. Branch, Kolakta .. /Haldia, further agree that, without our consent and without affecting in any manner our obligations hereunder, the Trustees shall have the fullest liberty to vary from time to time any of the terms and conditions of the said contract or to extend the time for full performance of the said contract including fulfilling all obligations under the said contract by the Contractor or to postpone for any time or from time to time any of the powers exercisable by the Trustees against the Contractor and to forebear or enforce any of terms and conditions relating to the said contract and We,.. Branch, Kolkata... /Haldia, shall not be relieved from our liability by reason of any such variation or extension being granted to the Contractor or for any fore-bearance, act or commission on the part of the Trustees or any indulgence by the Trustees to the Contractor or by any such matter or thing of whatsoever nature, which under the law relating to sureties would, but for this provision, have effect of so relieving us, Branch, Kolkata ... /Haldia.
5. We, Branch, Kolkata ... /Haldia do also agree that the

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Trustees at their option shall be entitled to enforce this Guarantee against us
...Branch, Kolkata .../Haldia as principal debtor in the first instance without producing against the Contractor and notwithstanding any security or other guarantee that the Trustees may have in relation to the Contractor's liabilities.

6. We,.....Branch, Kolkata.../Haldia, lastly undertake not to revoke this Bank Guarantee during its currency except with the previous consent of the Trustees in writing.

SIGNATURE... ..

NAME.....

DESIGNATION.....

(Duly constituted attorney for and on behalf of)

BANK.

BRANCH... ..

KOLKATA.../HALDIA

(OFFICIAL SEAL OF THE BANK)

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Kolkata Port Trust
Haldia Dock Complex
CERTIFICATE OF COMPLETION OF WORK

Contractor : _____

Address : _____

Date of completion : _____

Dear Sir,

Subject : “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.

Reference : i) **Work Order No.:**/...../...../O-... dated
.....
ii) **Contract No./ Agreement No. :**/...../...../ AGMT /
...../

This is to certify that the above work which was carried out by you is, in the opinion of the undersigned, complete in every respect on the _____ day of _____ 20____, in accordance with terms of the contract and you are required to maintain the work in accordance with **GCC** of the General Conditions of Contract and under provisions of the contract.

(Signature of the Engineer/Engineer’s Representative)

Name:

Designation:

Date:

(OFFICIAL SEAL)

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

Kolkata Port Trust
Haldia Dock Complex
CERTIFICATE OF FINAL COMPLETION

**General Manager (Finance),
Haldia Dock Complex (HDC),
Jawahar Tower Complex,
P.O: Haldia Township,
Dist.: Purba Medinipur,
PIN – 721 607,
West Bengal, India.**

Subject : “Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT”.

Reference : i) **Work Order No.:**/...../...../O-... dated
.....
ii) **Contract No./ Agreement No. :**/...../...../ AGMT /
...../

This is to certify that the above work, which was carried out by is now complete in every respect, in accordance with the terms of the contract and that all obligations under the contract have been fulfilled by the Contractor.

(Signature of the Engineer/Engineer's Representative)

Name:

Designation:

Date:

(OFFICIAL SEAL)

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.

("NO CLAIM CERTIFICATE" FROM CONTRACTOR)

[To be submitted on Bidder's Letter Head]

General Manager(Engineering)

Haldia Dock Complex ;
Kolkata Port Trust.
Engineering Department
Jawahar Tower Complex ;
P.O.: Haldia Township;
Dist.: Purba Medinipur ;
PIN: -721607
West Bengal, India.

Dear Sir,

Subject : "Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT".

Reference : i) **Work Order No.:**/...../...../O-... dated
.....

ii) **Contract No./ Agreement No. :**/...../...../ AGMT /
...../

I/We do hereby declare that I/we have received full and final payment from Haldia Dock Complex, Kolkata Port Trust, for the execution of the subject work, and I/we have no further claim against Haldia Dock Complex, Kolkata Port Trust in respect of the above mentioned job.

Yours faithfully

(Signature of Contractor)

Date :

Name of Contractor :

Address :

(OFFICIAL SEAL OF THE CONTRACTOR)

Supply, Installation, testing & Commissioning of Outdoor type 1010 KVA Diesel Generator Set with AMF Panel including Comprehensive maintenance contract for the period of 5 years after expiry of 2 years guarantee period and Supply, Installation, testing & Commissioning of 31 nos. indoor type HT Panel of 3.3 KV, 1250 Amps, 3 Phase, 50 Hz, 25 KA VCB for 3sec. for Lock Entrance at Haldia Dock Complex, KoPT.