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**BUDGETARY OFFER
FOR**

**SUPPLY AND INSTALLATION OF 11 KV 630 AMPS VCB RMG UNIT
AT "E" SUBSTATION IN CHENNAI PORT TRUST**

SUBMISSION ON OR BEFORE 21.06.2018

**THE CHIEF MECHANICAL ENGINEER
7TH Floor, Centenary Building
Rajaji Salai, Chennai – 600 001.**

BUDGETARY OFFER FOR SUPPLY AND INSTALLATION OF 11 KV 630 AMPS VCB RMG UNIT AT "E" SUB-STATION IN CHENNAI PORT TRUST

TECHNICAL SPECIFICATION **SCHEDULE 'A'**

1.0 GENERAL: -

Chennai Port Trust proposes to replace the existing old OCB **RMG** unit by new 11 KV Vacuum circuit breaker type **RMG** unit as per TANGEDCO norms at 'E' Sub-station near Gate No.10.

2.0 SCOPE OF WORK: -

1. Dismantle the existing old 11 KV oil circuit breaker type **RMG** and handed over to **TANGEDCO** at site (E- substation).
2. Supply and installation of indoor type, floor mounted, 11 KV, 3 Phase, 50 Hz, 630 Amps **RMG** unit with 1 No. 630A, VCB with panel as outgoing for load and 630 Amps 4 Nos. Load breaker switch (Isolator) as incoming / outgoing feeder with complete enclosed.
3. Supply and installation of maintenance free earth.
4. Supply and laying of GI Earth flats.
5. To prepare and produce **RMG** unit drawing as per TANGEDCO norms and Specifications / standard and get approval from TANGEDCO before manufacturing the **RMG** unit by own cost of the contractor.
6. Testing and commissioning of **RMG** unit and produce test certificate.
7. The work shall be executed as per relevant IS Standard and IER for **RMG** unit.
8. The work shall be executed as per the direction of EIC (Engineer In Charge)

Note: -

1. The transport arrangement at own cost of the contractor.
2. The disconnection, End termination and reconnection of cables by Chennai Port Trust

3.0 SPECIFICATION:

The design, supply and testing of the various equipment and accessories covered in this specification shall comply as per relevant IS standards with latest amendments.

4.0 TECHNICAL SPECIFICATION OF INDOOR TYPE, FLOOR MOUNTED, COMPLETE ENCLOSED 11 KV, 50 Hz, 3 Phase 630 Amps RMG UNIT: -

4.1 VACUUM CIRCUIT BREAKER (VCB)

The VCB shall be with following specifications:

Rated voltage	: 11KV
Phase	: 3
Rated frequency	: 50 Hz
System maximum voltage	: 12 kV
Rated Bus bar current	: 630 Amps
AC control voltage	: 230 Volt AC from Ch. P.T. Substation, Input 230 V AC
DC control voltage	: 110-volt DC from power pack
Rated current	: 630 Amps.
Rated Breaking Capacity	: 25 KA
Short time duration	: 3Sec.
Rated operating duty	: 0-0.3 sec-C0-3 min-C0
No. poles	: 3
Closing coil	: 110 V DC
Tripping coil	: 110 V DC
Type of charging	: Manual as well as motorized Spring charging Mechanism with 230V AC operated motor.

The system comprising of 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 horizontal draw out type. The breaker shall be provided with a visual, mechanized, indicating device for 'OPEN' (OFF) and 'CLOSE' (ON) position of the breaker. The VCB fully type tested at CPRI / any Government approved NABL aggregated laboratories and comply with IS 13118.

4.2 OUT GOING VACUUM CIRCUIT BREAKER PANEL

The 11 KV, 630 Amps, 3 Phase, 50 Hz, indoor type, VCB panel are suitable for dust and vermin proof complying with IS 3427, free standing, floor mounted on a common under base with suitable cable entry box arrangement for 185 sq.mm XLPE cables. VCB shall be included 3 phase, 3 limb draw out type connected dry type PT on VCB panel. The power pack with stored energy to meet out five tripping to be connected to the auxiliary supply 230 Volt A.C. supply. The VCB panel are extensible on either sides and fully compartmentalized with necessary control Protection and metering circuits are completely assembled, wired. The VCB panel load bearing members shall be fabricated using suitable size of mild steel structural section, pressed and shaped CRCA sheet as per **type test certified by** CPRI / any Government approved NABL aggregated laboratories. The details of parameters as follows.

1. One No. Volt meter & one No. Ammeter as per TANGEDCO norms.
2. One No. test trip circuit healthy indicating LED indicating lamp WHITE colour with Black colour push button. Emergency trip push button in Red colour.
3. One No. Spring charged LED lamp indication lamp BLUE colour.
4. One No. TNC (trip neutral close) switch.
5. Numerical relays consist of IDMTL + Inst 3 O/C + Inst E/F – 1No. Master trip-1 No. as per requirements of TANGEDCO.
6. 2 sets of operating handle, spring charging handle and other required accessories shall be supplied.
7. One No. Cable Box suitable from receiving of 3CX185 Sq.mm H.T. XLPE Cables.
8. 1 No. panel illumination lamp 230V AC, 11 / 20 watts. (CFL with door switch/ toggle switch).
9. 1 No. Hooter for tripping.
10. Operating counters.
11. Mechanical spring charged / Discharged indicator.
12. Self-aligned 24 PIN plug & socket
13. Test / Service / Isolation position indicator
14. Automatic safety shutter
15. Tripping both electrical and Mechanical.
16. Aux. contact 8 NO + 8 NC
17. Mechanical ON / OFF indication with push button.
18. VCB ON RED colour, VCB OFF GREEN colour, VCB TRIP AMBER colour.
19. Space heater 2 Nos. 230 V AC with ON-OFF switch and thermostat.
20. 1 No. 5 Amps. 230V AC, plug and socket along with piano type on/off switch for VCB panel.
21. Phase indicator for R – Phase in Red colour, Y – Phase in Yellow colour, B – Phase in Blue colour at rated voltage 230 Volt A.C. supply.

Note: Sufficient Space shall be provided for TANGEDCO meter in front of VCB panel. The pre – wiring has to be provided as required by the TANGEDCO by the contractor. Separate TVM meter will be arranged by the TANGEDCO.

4.3 Load Break Switch (Isolator)

The LBS (Isolator) shall be 630 Amps, 11 KV, 3Ph, 50 Hz, 25 KA, 500 MVA. LBS (Isolator) with extended handled shall be of metal enclosed, indoor, floor mounted free standing weather proof Compartmentalized. The Isolator switch board frame load bearing members shall be fabricated using suitable size of mild steel structural section, pressed and shaped CRCA sheet as per **type test certified**. The operating mechanism shall be spring assisted mechanism with operating handle for ON /OFF. Earth positions with

arrangement for padlocking in each position. Also independent manual operations with mechanically operated indicator. Each load break switch shall be quick break contacts and with integral earthing arrangement. The isolator at an Ambient temperature of 50 °C which means that Isolator rating should be 630 A maximum ambient temperature of 50 °C. The LBS fully **type tested** at CPRI / any Government approved NABL aggregated laboratories with IEC 265/IS 9920.

1. The LBS shall have ON / OFF mechanical indications and Electrical indications.
2. Aux. switch 2 NO + 2 NC
3. LBS ON RED colour, LBS OFF GREEN colour,
4. Space heater 2 Nos. 230 V AC with ON-OFF switch with thermostat.

4.4 RMG UNIT: -

The HT 11 KV RMG unit shall consists of one No. VCB panel as outgoing and four Nos. LBS (Isolator) as incomer /outgoing feeder. The VCB panel shall be installed at left side of the unit and RMG unit shall be floor mounded, modular design, panel type. The size of the RMG unit shall be as per the TANGEDCO requirements / manufacturer standard and also the approximate dimensions of the RMG unit shall be WIDTH 2250 mm, DEPTH VCB 1800 mm, DEPTH LBS 1050 mm. and HEIGHT 2050 mm. The Bus bar clearance phase to phase is not less than 130 mm and Phase to earth bus bar clearance is not less than 80 mm. The RMG unit Panel shall be suitable for indoor installation in highly humid area, dust and vermin proof, suitable for indoor use as per production of degree **IP 4X**. This shall be suitable to receive power at 11 KV, 50 Hz, 3 phase AC with all equipment fittings and accessories for efficient and trouble free operation. The bus bar chamber with 630 Amps copper bus bar for each Phase not less than 50 mm X 10 mm one run and Dropper Phase not less than 50 mm X 10 mm one run and Main earth 25 mm X 06 mm Dropper earth not less than 25 mm X 06 mm one run (double earthing), heat shrinkable PVC sleeved with colour code i.e. R Phase for red colour, Y Phase for Yellow colour, B Phase for Blue colour. The current density 1.5 Amps / sq. mm. The bus bar shall be high conductive electrolyte tinned copper. All the HT bus bar shall be supported on epoxy resin cast insulators. The Bakelite sheet of 12 mm thickness (minimum) shall be provided in side enclosures of panel and wherever it is found necessary under relevant IS specification & IER- 62271-200 or latest.

The RMG unit Panel shall be provided with two earthing terminal, necessary inter-connection, control wiring shall be 2.5 sq. mm PVC copper multi strand wire, green colour ferruled properly, Earthing, etc. and shall be complete with finishing paint etc. All necessary protection with arc free fuses / MCB for the instruments and relays shall be provided separately inside the enclosures suitable capacity.

The layout drawing, dimensional drawings and electrical wiring diagram and operation maintenance manuals in duplicate shall be supplied along with RMG unit. The RMG unit shall be supplied in conformity with relevant IS & IEC with up to date amendments along with manufacturer's / authorized system house test certificate shall be produced. The RMG unit shall be delivered after TANGEDCO acceptance. **The firm shall obtain necessary approval of the drawing of HT 11 KV RMG unit from TANGEDCO by own cost of the contractor before manufacturing the fabrication.**

The RMG unit shall be suitable for solid earthed system with Max. voltage of 12 KV power.

4.5 INTERNAL WIRING AND TERMINAL BLOCK: -

Internal wiring and inter panel wiring for all circuits shall be carried out with 1100V Grade, Single core, multi strand, PVC insulated copper conductor wire of minimum 4 sq. mm. for CT's circuit and all other wire shall be Single core, multi strand, PVC insulated copper conductor minimum of 2.5 sq. mm. Black color for AC circuit, Gray color for DC circuit and Red, Yellow & Blue for Phase indication. Terminal block shall be disconnecting type of TB for CT wiring minimum 6 sq. mm. clip on type for control wiring.

The wiring shall be neatly bunched adequately supported and properly routed and terminated in the respective terminals with suitable lugs. There shall not be more than two wires connected at a terminal.

Wires shall be identified by numbered ferrules at each end. The ferrules shall be of ring type and non-deteriorating material. All control circuits shall have MCBs mounted in the front of the panel and shall be easily accessible.

Terminal block for the LT connections shall be of 660V grade of ELMAX type and of adequate current rating. The insulating barriers shall be provided between adjacent terminals. Provision shall be made for label inspection of terminal block. Cables shall never be terminated directly on components. Provision shall be made for CT terminals shorting links, 20% spare terminals shall be provided on each terminal block.

4.6 INSTALLATION OF RMG UNIT PANEL: -

The installation RMG panel get approval from TANGEDCO before to carryout installation / erection work inside the 'E' sub-station by the contractor and shall maintain the floor level along the existing concrete trenches with suitable supporting M.S. angles, U channels, frames, grouting fasteners and all other civil materials and accessories. The foundation works including supply and fabrication of M.S. angles, U channels and grouting fasteners for erection and labor charges shall be borne by the contractor.

4.7 POTENTIAL TRANSFORMERS: -

i) Voltage ratio	11KV/ $\sqrt{3}$ / 110 V/ $\sqrt{3}$ with HRC Fuse
ii) mounting	Draw out type
iii) Insulation	Epoxy Resin Cast
iv) Type	3 Phase, 3 Limp
v) Accuracy class/ Burden	0.2 / 50 VA
vi) Insulation Level	12KV / 75KV Peak / 28 KV rms.
vii) Volt meter	size - 144 sq. mm. Mounting - Flush type with selector switch. Type – Analog Rating 110 Volt AC, class – 1.0, scale – 0 to 15 KV,

PTR - $11KV/\sqrt{3}/110V/\sqrt{3}$

4.8 CURRENT TRANSFORMER: -

Protection	Class 5P20, Burden 15 VA
Metering	Class 0.2 S, Burden 5 VA
Insulation Level	12KV/75KV Peak/28 KV rms.
Ratio	75 / 5-5 A
No.of Core	Dual
Insulation Class	B
Reference Standards	IS:2705
Insulation	Epoxy Resin Cast STR of 25 KA for 3 Sec.
Ammeter meter	size - 144 sq. mm. Mounting - Flush type with selector switch. Type – Analog Rating 5 Amps. AC, class – 1.0, scale – Ratio 75 / 5 A

5.0 SUPPLY, INSTALLATION OF EARTH PITS AND EARTHING AND SUPPLY AND LAYING OF G.I. FLAT: -

Maintenance free Earthing: -

Maintenance free earthing shall be carried out in accordance with Indian Electricity Rules and Regulations amended till date and also the Earth electrodes shall be provided in conformity with BIS 3043/ BS 7430 of the latest version expecting the specified values detailed herein. The earth system shall be designed and installed so as to meet the requirement of CEA. The value of resistance of earth system should not exceed value acceptable to the Central Electricity Authority.

The earth electrodes shall be of high tensile low carbon steel circular rods, molecularly bonded copper or clad copper on the outer surface 25 mm dia. and not less than 3.0 m length and shall be driven to a depth in the ground below the ground level and 3 meters away from any other earth electrodes or as per latest BIS 3043. The premixed power set carbon based backfill compound shall be poured in the bore with water and re- close the bore. Two run of 50 mm x 6 mm GI flat shall be connected from the earth pit to RMG unit.

The G.I. flats of size 50 mm x 6 mm shall be interconnected of earth pits. Interconnections and joints for earth conductors shall be riveted and soldered for retaining low resistance.

All the materials, terminals and works specified herein and shall be the entire responsibility of the firm.

Each earth flat should be connected to the main earth through a bolted removable link. All ground connections shall be compounded and braided.

The top surface of the earth pit shall be in level with the finished surface level of the surrounding area. The earth pit shall be enclosed and covered with RCC slab.

The earth value shall be obtained accordance with relevant standards and the earth values shall be measured after installation in the presence of Trust Engineer.

6.0 PAINTING: -

All metal parts shall be thoroughly cleaned to remove rust, scale, grease etc. and painted with two coats of Siemens gray colour shade over one coat of rust resisting primer. The paint shall not scale-off, crinkle or removed due to normal handling.

All metal surfaces not accessible for painting shall be made of corrosion resistance material.

7.0 TESTS:

The 11 KV RMG switchboards shall be **Type tested** for routine tests as per relevant IS / IEC and **type test certificates** shall also furnish along with routine test certificates. Manufacturer's test certificates shall be furnished for HT RMG unit. The partial discharge test shall be carried out as a routine test on the complete insulated Insulators RMG and VCB.

After installation of RMG unit, it shall be tested and commissioned in the presence of Trust's Engineers / TANGEDCO Engineers in accordance with IE rules, relevant standards and as per requirements.

8.0. COMPLETION PERIOD:

Entire wo

9.0 LIST OF APPROVED MAKES FOR ELECTRICAL SPARES (26 ITEMS)

S.No.	ITEM	Name of Manufacturers
1	Volt meter and Ammeter	AE / MECO / YOKINS / NIPPEN
2	Selector switches, Push buttons, Emergency Switches	KAYCEE / L & T / GE / BCH / LEGRAND
3	HRC Fuses	L & T / GE / SIEMENS / ABB / INDO KOPP
4	Indicating light	AE / KAYCEE / VAISHNAV / L & T /SIEMENS
5	MCB	L & T / LEGRAND / SIEMENS / ABB / SCHNEIDER / HAVELLS

S.No.	ITEM	Name of Manufacturers
6	FRLS PVC insulated copper conductor single/multi core stranded wires of 650/1100 volt grade	HAVELLS / FINOLEX / RPG / UNIFLEX / NICCO / RR Kables
7	Switches, TV & Telephone Socket outlets, Boxes	MK / CLIPSAL / LEGRAND / NORTH WEST / ANCHOR/ HAVELLS
8	Light Fixtures	PHILIPS / BAJAJ / WIPRO / CROMPTON/ HAVELLS
9	Lamps and Tubes	PHILIPS / WIPRO / BAJAJ / CROMPTON/ HAVELLS
10	Cable lug & Cable Gland	DOWELLS / JHONSON / RAYCHEM
11	Terminal Blocks	WAGO & CONTROLS / PHOENIX CONTACTS / OBO BETTERMANN
12	Multi-function Meter	ABB / SIEMENS / L&T / HPL SOCOMEC/CONZERVE (ENERCON)
13	Contactors	L&T / SCHNEIDER / SIEMENS/ABB / BCH
14	VCB / SF6/ LBS (Isolator)	SIEMENS / ABB / SCHNEIDER
15	Push Buttons	SIEMENS / ABB / TELEMECANIQUE / L&T / SCHNEIDER
16	Relays	L&T / ABB / SIEMENS / SCHNEIDER/AREVA
17	Timers	L&T / SIEMENS / TELEMECANIQUE/ABB
18	Indicating Light	L&T / SIEMENS / TELEMECANIQUE / ABB / GE
19	Indicating Instruments	AE / MECO / CONZERVE / L&T
20	CTs	L&T / AREVA / JYOTI / KAPPA / PRAGATHI/ KALPA
21	PTs	AREVA / KAPPA / PRAGATHI/ KALPA
22	HT Panels	SIEMENS / SCHNEIDER / ABB
23	LT Panels	SIEMENS / L&T / SCHNEIDER / ABB

S.No.	ITEM	Name of Manufacturers
24	Selector Switch	KAYCEE / L&T / SIEMENS / BCH / GE / SALZAR
25	Trivector Meter (Digital)	L&T / SCHNEIDER / SIEMENS / HPL SOCOMEC
26	Elastomeric Mat	PREMIER POLYFILM LTD / POLYELECTROSAFE / CHALLENGER

10.0. DRAWING LIST: -

Necessary drawings shall be prepared and submitted to TANGEDCO for approval before fabrication of panel and commencement of work and arranging for site inspection for installation of RMG unit. The approval of RMG unit charges by the contractor own cost and response.

All catalogues, technical drawings, details etc., for all the proposed **RMG UNIT** with operation and maintenance manuals shall be furnished to the Trust's Engineer by the contractor.

11.0. SPECIFICATION OF SAFETY EQUIPMENTS:

The following safety equipment shall be supplied and installed by the contractor in the substation as per the IER. Without any extra cost.

FIRST AID CHART: -

The first aid charts equipped fully with such contents as stipulated by the CEA conspicuously marked shall be supplied and installed in the switch gear room at 11KV RMG unit at E- substation.

INSTRUCTION FOR RESTORATION OF PERSONS SUFFERING FROM ELECTRIC SHOCK:

Instruction in English and Tamil for providing artificial respiration as per CEA regulations shall be supplied and affixed in a frame board at convenient location in 11KV RMG unit at E-substation. Safety posters for vigilance against electrical accidents as per CEA regulation shall also be provided by the contractor.

RUBBER MAT:

Suitable size of tested flexible rubber mat conforming to latest or IS 15652 of 2006 shall be provided in front of the RMG UNIT by the contractor by own cost.

CAUTION BOARD:

Required number of Danger board / sticker of H.T. Voltage in three languages English / Tamil / Hindi are to be provided on the panel.

LETTER PAINTING: -

All incomer cables / all outgoing cables / P.T. & C.T. VCBs details shall be painted / sticker at the front and rear sides of the RMG unit specifying the full details and furnishing the amperage, voltage, size of the cable in the red letters on white back ground. Should be written in RMG unit by the contractor by own cost.

12.0. GENERAL TERMS & CONDITIONS

- i) The technical Specification Schedule-'A' and Schedule of prices and Quantities 'A1' to read in Conjunction to ensure the actual supply and works involved.
- ii) The firm shall engage all the men/materials/tools/plants required for the work at the site till the completion of the work. The Trust will not supply any of the same.
- iii) The Trust will not be responsible for any loss or damage of the men/materials /tools/ plants engaged by the firm during the work at site or transportation.
- iv) The firm will be responsible for any loss/damage to the Trust's property during the work at site.
- v) The Contractor shall submit to the Trust's Engineer on receipt of order, the physical layout of RMG unit in accordance with drawings as per requirements of TANGEDCO and get approval same from TANGEDCO.
- vi) Any alteration / modification suggested and materials / works detailed for rectification of defects pointed later after inspection by the CEA shall be carried out at the Contractor's cost.
- vii) The Contractor shall arrange for safe storage of all materials, tools and equipment supplied and delivered at site from time to time, till the final handing over of the installation to the Trust. A lockable storage accommodation shall be provided by the Trust to the contractor within Trust's premises if available. The Trust shall not accept any responsibility until the substation and other installation are commissioned and handed over safely to the Trust and overall safety and safe custody of all materials and equipment shall be the responsibility of the contractor.
- viii) The Trust shall arrange for necessary isolation of feeders and VCBs when Contractor proposes to attend the required modifications in the existing cable. This shall be programmed previously so as to disturb the existing system for a lesser period, without much disturbing the port operation.
- ix) Any cut openings holes or punching made by the contractor at the walls or floor while carrying out the electrification work shall be made good to the original surface immediately on completion of work.
- x) The contractor shall commence the work immediately on receipt of order and shall execute the work along with the progress of civil and other works and shall be able to complete and commission the work within the scheduled time unless the delay is due to reasons beyond the control of the contractor for which the contractor shall have even responsibility of men and materials if any lost.
- xi) The contractor shall after completion of all works carryout the tests for all Installation for insulation and earth etc. as per relevant IS and they should furnish test certificate to that effect as indicated in the IS. The contractor shall furnish the test certificates for the VCB and LBS to be incorporated in the RMG unit.
- xii) One temporary power supply will be provided by the Trust at works site, but electricity will be charged as per Board's rate in force as per scale of rates.

- a) The Contractor should make Security Deposit equivalent to three months consumption charges as per TNEB norms for Temporary connection.
- b) The Security deposit will be refunded after the completion of the works.

Note: -

The firm shall contact for any clarifications to **Dy. CME(ES&CH)** at 11nd floor, Old Administrative office, Chennai Port Trust, Telephone No. 25312542

**CHIEF MECHANICAL ENGINEER
CHENNAI PORT TRUST**

**BUDGETARY OFFER FOR SUPPLY AND INSTALLATION OF 11 KV 630 AMPS
RMG UNIT AT "E" SUB-STATION IN CHENNAI PORT TRUST**

SCHEDULE OF PRICES AND QUANTITIES

SCHEDULE 'A1'

Sl.No.	Description of Item / Work	Unit	Qty.	Rate/Unit (Rs.)	Amount (Rs.)
1.	Dismantle the existing old 11 KV oil circuit breaker type RMG and handed over to TANGEDCO at site (E- substation).	L.S.	L.S.		
2.	The RMG unit consists of 1 No. 11kV, 630 Amps., VCB with panel as outgoing for load and 11kV, 630 Amps., 4 Nos. LBS (Isolator) as Incomer and Outgoing feeders as per specification of schedule - 'A'. (a)Supply (b)Installation	Set Set	1 1		
3	Provision of maintenance free earthing system as per specification of schedule - 'A' (a) Supply (b) Installation	No. No.	2 2		
4	Supply and Laying of 50X6 mm GI flat for earths for RMG unit as per schedule A'. (a) Supply (b) Installation	Mtrs. Mtrs.	40 40		
5	Testing and commissioning of RMG unit	L.S.		L.S.	
Total amount in Rs.					

Rupees _____ only)

Note: i) The rate quoted by the firm shall be inclusive of all taxes and duties excluding GST.

ii) The firm shall furnish the Tax invoice for GST separately as per GST Act / Rules.

Firm's Sign and Seal

SPECIAL CONDITIONS OF CONTRACT
SCHEDULE - 'B'

1. The Tenderer shall examine carefully the General Rules and Directions, General and Special Conditions of Contract, Technical Specifications and Drawing and Shall inspect the site to acquaint himself with the nature of work local working conditions etc., for the purpose of making his offer on his own responsibility.
2. It shall be open to the Chief Mechanical Engineer to nominate one or more of his representatives to supervise the work and to satisfy about the quality of materials and workmanship as required by the relevant regulation and as mentioned in technical specifications. The decision of the Chief Mechanical Engineer shall be final as regards the quality of materials and workmanship shall be binding on the contractor.
3. The prices shall be firm and not subject to fluctuation at any stage till the completion of the contract. The prices quoted must be filled in ink both in figures and words in the Schedule of prices attached with the Tender Document the prices quoted shall be inclusive off taxes, duties, freight, insurance, unloading etc. and any correction shall be supported by the Tenderer's signature there against.
4. The offers with specifications very near to those stated in the Technical Specifications may also be given consideration as alternate besides the main offer with full specification. The Tenderer shall give clear indication in his tender of the items he does not propose to include in the tender. Where such clear mention is not given it will be construed that the tender covers all parts required for completion of work.
5. The Tenderer shall quote separately for any items which have not been specifically mentioned in the specification but which are found necessary for completion, efficient installation and operation of electrification system other than those items which are not covered under 'works not included'.
6. The tender shall be accompanied by sufficient details of materials included in the offer with catalogue and sketches wherever if necessary for comprehensive assessment of its merits and performance
7. It will be entirely the Tenderer's responsibility to take required steps to adequately safeguard the personnel carrying out the work and to ensure that the work is carried out in such a manner that maximum safety to the personnel is assured.
8. All materials and components included in the contract shall conform to the relevant Indian Standard Specification wherever they exist.
9. The decision of the Chief Mechanical Engineer or his representative regarding the quality of any materials used on the work will be final and binding on the Tenderer. The Tenderer shall remove from the site of work any material rejected as unfit for use on the work at his own cost as soon as he is ordered to do so, failing which the Chief Mechanical Engineer or his representative shall remove such material from the site of work and shall deduct the cost incurred by such removal by the Board from any money due to the Tenderer.
10. The Tenderer shall co-ordinate his work with that of other Tenderers executing other works in the site and plan his work as to minimise inconvenience to others in the work site.

11. The watch and ward and storage of materials will be Tenderer's responsibility and the Board shall not be held responsible for any loss of the material.
12. The Tenderer shall be deemed to have satisfied himself before submitting the tender as to the correctness and sufficiency of his tender for the work and of his price stated in the schedule as to cover his entire obligation under the contract for completion of the work.
13. For Harbour entry pass and direction to site of work for inspection for the purpose of making the offer, the Tenderer shall contact the "Dy.CME (ES&CH), 7th floor of the Centenary Building, Chennai Port Trust. Telephone Nos. 25362201 – Extn: 2707

**CHIEF MECHANICAL ENGINEER
CHENNAI PORT TRUST**

GENERAL CONDITIONS OF CONTRACT

SCHEDULE - 'C'

1. DEFINITIONS AND INTERPRETATIONS

In the contract (as hereinafter defined) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:

- (a) "BOARD" means the Board of Trustees of the Port of Chennai as constituted under the Major Port Trusts' Act, 1963 as amended from time to time.
- (b) "CHIEF MECHANICAL ENGINEER" means the Chief Mechanical Engineer of the Chennai Port Trust.
- (c) "CHIEF MECHANICAL ENGINEER'S REPRESENTATIVE" means any Resident Engineer or Assistant of the Chief Mechanical Engineer or any clerk of works detailed from time to time by the Chief Mechanical Engineer to perform the duties as may be specified in the contract.
- (d) "CONSTRUCTIONAL WORKS" means all appliances or things or whatsoever nature required in or about the execution, completion or maintenance of the 'Works' or 'Temporary Works' (as hereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work.
- (e) "CONTRACT" means the General Conditions, Specifications, Drawings, Priced Bill or Quantities. Schedule of Rates, Prices if any) tender and contract agreement.
- (f) "CONTRACTOR" means the person or persons, firm or company whose tender has been accepted by the Board and Tenderer's permitted assigns.
- (g) "CONTRACT PRICE" means the sum named in the tender subject to such conditions thereto or deductions there from as may be made under provisions hereinafter contained.
- (h) "DRAWINGS" means the drawings referred to in the contract agreement and any modifications of such drawings approved in writing by the Chief Mechanical Engineer and such other drawings as may from to time be furnished or approved in writing by the Chief Mechanical Engineer.
- (i) "SITE" means the lands and other places on/under/in/of, through which the 'work ' are to be executed or carried out and any other lands or places provided by the Board for the purposes of the contract.
- (j) "TEMPORARY WORKS" means temporary works of every kind required in the execution, completion or maintenance of the works and which do not form an item of the 'work' or 'works'.

(k) "WORKS" means the works to be executed in accordance with the contract under the relevant schedules.

(l) "TRUST'S STORES" means the storage yards for materials of the Trust anywhere in the Harbour premises.

2. EXTENT OF CONTRACT

The contract comprises, the construction, completion and maintenance of the 'works' and the provision of all labour, materials constructional Generator, temporary works and every thing whether of a temporary or permanent nature required in and for such construction, completion and maintenance so for as the necessity for providing the same is specified in or reasonably to be inferred from the contract.

3. COMPLETION PERIOD

The entire work shall be completed with in 90 days from the 7th day of issue order.

a) In case of delay in the progress of work, the Chief Mechanical Engineer shall issue to the Tenderer a memo in writing pointing out the delay in the progress and calling upon the Tenderer to explain the causes for the delay within three days of the receipt of the memo. If the Chief Mechanical Engineer is not satisfied with the explanation offered, he may forfeit the security deposit and/or withhold payment of pending bills in whole or in part. The Tenderer may appeal to the Chairman against the order of the Chief Mechanical Engineer forfeiting the Security Deposit and withholding of bills within a week of the said order and the decision of the Chairman shall be final and binding on the Tenderer.

b) If the security deposit or any part thereof is forfeited by an order of the Chief Mechanical Engineer and such order become final, the Tenderer shall make good the security deposit or part of such deposit so forfeited within a fortnight thereafter or such further time as the Chief Mechanical Engineer may grant failing which the Chief Mechanical Engineer may determine the Contract.

4. GUARANTEE PERIOD

(a) The contractor shall ensure no damage to the Trust Properties during contract period. If any, the same shall be rectified and / or replaced at free of cost by the Tenderer.

(b) If during this twelve months guarantee period any defects are noticed, which in the opinion of the Chief Mechanical Engineer are due to bad materials used and/or defective workmanship the Tenderer shall be required to carryout at the Tenderer's cost, such repairs, as the Chief Mechanical Engineer considers necessary or in the event of the Tenderer failing to do this within a notified time the Chief Mechanical Engineer may arrange for such repairs to be carried out and deduct the cost of such rectification of the defects from the amount retained, without prejudice to the recovery of any amount that may have been spent in excess of the deposit. For purposes, the period of 12

months shall count from the date of handing over of the completed part or whole of works by the Tenderer to the Chief Mechanical Engineer.

5. (a) The Chief Mechanical Engineer reserves to himself the right to cancel the contract for unsatisfactory progress in the work at any stage.

(b) **CONTRACTOR'S SUPERINTENDENCE**

The Tenderer shall give or provide all necessary superintendence to the complete satisfaction of the Chief Mechanical Engineer during the execution of the works and as long thereafter as the Chief Mechanical Engineer may consider necessary. The Tenderer or a competent and authorised agent or representative approved in writing by the Chief Mechanical Engineer which approval may at any time be withdrawn is to be constantly on the work and shall give his whole time to the superintendence of the same. Such authorised agent or representative shall receive on behalf of the Tenderer directions and instructions from the Chief Mechanical Engineer or (subject to the limitations of Clause 9 hereof) the Chief Mechanical Engineer's representative.

6. PROGRAMME TO BE FURNISHED

As soon as practicable, after the acceptance of his tender, the Contractor shall, if required, submit to the Chief Mechanical Engineer for his approval a detailed programme showing the order of procedure and method in which he proposes to carry out the works and shall whenever required by the Chief Mechanical Engineer furnish for his information particulars in writing of the Contractor's arrangements for carrying out the works and of the constructional plant and temporary works which the Contractor intends to supply, use or construct, as the case may be. Submission to and approval by the Chief Mechanical Engineer of such programme or furnishing of such particulars shall not relieve the Contractor of any of his duties or responsibilities under the contract.

7. If the progress of work is held up owing to circumstances which, in the opinion of the Chief Mechanical Engineer are beyond the control of the Tenderer, such as war, stormy weather etc., the Chief Mechanical Engineer may at his discretion, grant to the Tenderer such extension of time as he considers reasonable for the completion of the works. The grant of such extension of time shall not bestow on them for any claim or compensation/extra payment at a future date whatsoever.

8. The materials used on the work must be of first class variety corresponding to relevant ISS and other specifications laid in the contract. The work must be carried out in a workmanlike and expeditious manner and quality of work at each stage shall be subject to approval of the Chief Mechanical Engineer. The Chief Mechanical Engineer's decision as to the quality of such materials and work shall be final and binding on the Tenderer.

9. The Tenderer shall maintain at the site or work an Inspection Register, which must be produced by the Tenderer or his agent whenever called upon to do so by the Chief Mechanical Engineer or his representative during their inspection of the work. If the rectifications ordered to be done are not carried out within the time specified by the Chief Mechanical Engineer, the Chief Mechanical Engineer shall have the right to get such work done by any other agency and to recover the cost thereof from the

Tenderer. This inspection register shall be the duplicate copying type so that one copy of the entries get recorded in the Chief Mechanical Engineer's Office. The Tenderer shall not make any entry of any kind in this register.

10. CHIEF MECHANICAL ENGINEER'S REPRESENTATIVE

The duties of the Chief Mechanical Engineer's Representative are to watch and supervise the works and to test and examine any materials to be used or workmanship employed in connection with the works. He shall have no authority to relieve the Contractor of any of his duties or obligations under the contract or except as expressly provided hereunder to order any work involving delay or any extra payment by the Board or to make any variation or of in the works.

11. WORK TO BE TO THE SATISFACTION OF THE CHIEF MECHANICAL ENGINEER:

The Tenderer shall execute, complete and maintain the works strictly in accordance with the contract to the satisfaction of the Chief Mechanical Engineer and shall comply with and adhere strictly to the Chief Mechanical Engineer's instructions and directions on any matter (whether mentioned in the contract or not). The Tenderer shall take instructions and directions only from the Chief Mechanical Engineer or his representatives.

12. LIQUIDATED DAMAGES/LATE DELIVERY CHARGES:

The Liquidated Damages/Late Delivery Charges shall be deducted from any amount payable to or to be payable to the contractor/supplier including encashment of Bank Guarantee or any securities/guarantees, if any available with the Port Trust.

The maximum amount of Liquidated Damages/Late Delivery Charges shall be worked out based on the total contract/supply order value inclusive of all taxes and duties. In case of part/portions of the contract work/supply order completed and taken possession by the Trust and the Trust operates/can be made for operation of the part portion/supply order, the calculation of Liquidated Damages will be restricted to the uncompleted/undelivered value of the work/supply order subject to the amount of the maximum percentage prescribed for the Liquidated Damages/Late Delivery Charges of the total value of the contract/supply.

The Liquidated Damages/Late Delivery Charges shall be ½% of the contract value per week or part thereof (a week is defined as 7 days inclusive of holidays) subject to a maximum of 10% of the contract value.

If the contract/supply order is delayed after giving due notice, the contract/supply order may be cancelled by the competent authority with the condition that any additional expenditure incurred by the Port Trust in completing the work/supply order will be recovered from the contractor/supplier of the cancelled contract/supply order for non-performance/delay in the execution of the contract/supply.

13. SUPPLY OF MATERIALS AND LABOUR

Except where otherwise specified in the contract the Tenderer shall at his own expense supply and provide all the temporary works, materials both for temporary and for works under the contract, labour (including the supervision thereof) transport to or

from the site and in and about the works and other things of every kind required for the construction, completion and maintenance of the works. The Tenderer shall not hire out any item or equipment brought by him in connection with the execution of the work under the contract to any other party in connection with any work of the latter in the Port, without the written permission of the Chairman. Such permission may or may not be granted by the Chairman.

14. The Tenderer shall at his own cost make due arrangements for the proper watch and safety of all materials and supplied to him by the Board for the use on this work. He shall not remove such constructional or materials from the site without the permission of the Chief Mechanical Engineer. If any of these materials are lost or damaged in any way due to negligence or carelessness on the part of the Tenderers or any of his employees, the cost for the materials lost or damaged and penalty for such negligence or carelessness of the Tenderer as determined by the Chief Mechanical Engineer shall be recovered from the Tenderer from any moneys due to him or to become due to him.

15. ASSIGNMENT AND SUB-LETTING

The Tenderer shall not assign the contract or any part thereof or any benefit or interest therein or there under without the written consent of the Board. The Tenderer shall not sublet the whole of the works. The Tenderer shall not sublet any part of the works without the written consent of the Board and such consent if given shall not relieve the Tenderer of any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any Sub-Tenderer and his agents, servants or workmen as if they were the acts, defaults, or neglects of the Tenderer, his agents, servants or workmen provided always that the provision of labour on a piece work basis shall not be deemed to be a subletting of assignment of benefit or interest under this clause.

16. The Tenderer shall be solely responsible for any accident, damage or injury caused to any of his employees or the Board's employees in the execution of the works and shall hold the Board blameless in respect thereof and also in respect of any claims made by any person in the employment of the Tenderer for any reason whatsoever.

17. (a) The Tenderer shall be responsible for all structural or decorative damage to Board's or his own property and injury caused by the works or workmen in his employment to persons, animals or things and shall indemnify the Board against any claims or actions arising there from. He shall also be responsible for any injuries or damage caused to the works by inclemency of weather outbreak of fire and shall rectify at his own cost all such damage and thoroughly complete the works.

(b) The Tenderer shall be solely responsible for reporting the Board and Police Department immediately any serious or fatal accidents at any place belonging to the Board including premises leased to the Board to any of his employees/ workmen engaged by him.

18. The Tenderer shall not house any of his workmen at or near the site. He shall not construct any structure even of a temporary nature for any other purpose on Board's premises except with the written permission of the Chief Mechanical Engineer

and any such construction so put up shall be removed by the Tenderer whenever the Chief Mechanical Engineer calls upon the Tenderer to remove.

19. The Tenderer shall not operate the workshop at the site for the purpose of this contract beyond what is absolutely necessary for the execution of this contract, the necessity for and extent of which the Chief Mechanical Engineer's decision shall be final. Such necessary structures shall be non-inflammable materials as approved by the Chief Mechanical Engineer.

Only vehicles licensed by the Board will be allowed inside the Harbour premises.

20. Measurements taken by the person authorised by the Chief Mechanical Engineer to take them will be binding on the Tenderer who will always be given the opportunity of witnessing the measurements. The contractor should submit a bill in the Trust's prescribed billing format.

21. PAYMENT TERMS:

100% payment will be made after completion of entire work in good condition and acceptance of the same.

Income tax @ 2% shall be levied U/S 194 (c) of Income Tax Act 1961. Similarly Tamil Nadu Value Added Tax as per Section 13 of T.N.VAT Act 2006 shall also be deducted. In case of exemption from the above levy necessary non-deduction certificate shall be produced by the tenderer from Income Tax / Commercial Tax office respectively.

The tenderer shall quote the Bank Account details for the payment through ECS along with PAN. A copies of the Pan Card, ESI regn No. and Service Tax Regn No. shall be furnished.

22. TAXES:

i) Tenderers will examine the various provisions of the Central Goods & Services Tax Act-2017 (CGST)/ Integrated Goods & Services Tax (IGST)/ Union Territory Goods & Services Tax (UGST) respective State's State Goods & Services Tax Act (SGST) also, as notified by Central/State Government and as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.

ii) The rate quoted by the Contractor/Supplier shall be inclusive of all Taxes and Duties other than GST. Applicable GST will be paid by ChPT based on the Tax Invoice.

iii) The Financial evaluation will be based on the total base price quoted by the Contractor / Supplier excluding GST.

iv) The firm shall furnish the Tax invoices as per GST Act/Rules in the name of the Chennai Port Trust by mentioning the GSTIN of ChPT and indicating amounts of GST Separately. The GSTIN of ChPT is **33AAALC0025B1Z9**.

v) The contractor /Firm shall remit the GST amount in the invoice to the Government within the due dates and also file the returns by mentioning the GSTIN of ChPT to enable ChPT to avail eligible Input Tax Credit (ITC).

vi) The contractor/ firm shall indemnify Chennai Port Trust from any loss of eligible ITC of GST paid by it to the Contractors/Suppliers based on their tax invoice, due to non-payment of GST or non-filing of GST returns by the contractor/firm or non-compliance of GST Act/provisions. The contractor/firm shall remit such GST amount with applicable interest and penalties to the ChPT within 7 days from the date of intimation by the ChPT about non-availing of eligible ITC. ChPT also reserves its right to deduct such GST amount with interest and penalties from the subsequent bills, Security Deposit or any amount due to the contractor by ChPT”.

vii) Applicable statutory recoveries including TDS under Income Tax, TDS under GST provisions etc., will be deducted/recovered while accounting for or making payment to the Contractor/Supplier as per the applicable law.

23. FINANCIAL EVALUATION:

The Financial evaluation of the Tender will be based on the Base Price of the supply of goods or services or both excluding the applicable GST

24. In the event of the death, insanity or insolvency of the Tenderer or in the case of the Tenderer being a partnership on a dissolution of the firm of Tenderer or in the case of the Tenderer being a company governed by Companies' Act 1956, the winding up of the company the contract shall be terminated on the happening of the event above said and all accepted and acceptable work shall be measured up and paid for, to the person or persons legally entitled to receive payment for work done and on his or their executing a bond indemnifying the Board against all claims that may be made in respect of payments made by the Board by persons claiming from the Tenderer or others, in respect of work done by the Tenderer prior to the termination of the contract.

25. In the event of the contract being terminated at any stage due to unsatisfactory progress of work as per Tender Specification, the Chief Mechanical Engineer shall have the right to execute the portions of works left incomplete using the Board's labour or any other agency and the Tenderer shall be liable to make good any loss incurred by the Board on this account. Such amounts shall be recovered from any moneys due to or to become due to the Tenderer.

26. (i) If the Tenderer claims that the decisions or the instructions of the Chief Mechanical Engineer are unjustified and that accordingly he is entitled to extra payments on account thereof, he shall forthwith notify this to the Chief Mechanical Engineer to record his decisions and the reasons therefore in writing and shall within two weeks state his claims in writing to the Chief Mechanical Engineer thereafter. The Chief Mechanical Engineer shall thereafter within four weeks of the receipt of the claim reply negotiations or discussions immediately thereafter within a further four weeks, the question of liability for such payments will be treated as one of disputes.

(ii) In the Contract whenever there is a discretion or exercise or will by the Chief Mechanical Engineer during the progress of work, the mode or manner of the exercise or discretion shall not be a matter of legal adjudication.

(iii) Wherever the Board is given discretion to do any act under the contract, the exercise of the discretion by the Board shall be final, conclusive and binding on all

parties and the manner of exercise of such discretion shall not be called in question and the matter cannot be referred to court of law.

(iv) The decision of the Chief Mechanical Engineer shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs, drawings and instructions and as to the quality of workmanship or material used on the work or any matter arising out of or relating to the specifications, designs and drawings and instructions concerning the works or the execution of or failure to execute the same arising during the course of works. The above shall not be the subject of Legal adjudication and in no case shall the work be stopped consequent on such a dispute arising and the work shall also be carried out by the Tenderer strictly in accordance with the instructions of the Chief Mechanical Engineer.

(v) Any litigation arising out of this agreement, shall only be adjudicated before the competent court of law within the jurisdiction of the Hon'ble High Court of Madras.

27. REMOVAL OF WORKMEN

The Tenderer shall employ in and about the execution of the works only such persons as are careful, skilled and experience, in their several trades and callings to the approval of the Chief Mechanical Engineer. The Chief Mechanical Engineer shall be at liberty to object to and require the Tenderer to remove from the works any persons employed by the Tenderer in or about the execution of the works who in the opinion of the Chief Mechanical Engineer, misconducts himself or incompetent or negligent in the proper performance of his duties and such persons shall not be again employed upon the works without the written permission of the Chief Mechanical Engineer.

28. (i) The Tenderer shall confirm to and comply with the regulations and byelaws of the State or Central Government or of the Board and of all other local authorities such as Corporation of Madras, the Tamil Nadu Electricity System, the Chief Electrical Inspector to the Government of Tamil Nadu, the Government Customs and Police Departments, Fire Services, the provisions contained in the various Labour Acts enacted by the State Legislature and Central Parliament in force and the rules made thereunder including those under Minimum Wages Act, Factories Act, the Indian Electricity Act and rules framed under it, Workmen Compensation Act, Provident Fund Regulations Act, Employees Provident Fund Act, 1961 and scheme made under the said Act, Health and Sanitary arrangements for workers etc. and Contract Labour (Regulation and Abolition) Act, 1970 and the Contract (Regulation and Abolition) Central Rules, 1971 etc. for welfare and protection of works, workers or for the safety of the public and other insurance provisions.

(ii) The Board shall not be liable for the failure of the contractor in confirming to the provision of the Acts, Rules and regulations etc., referred to in the above para and in case of any contravention of the provisions of the Acts, Rules regulations etc. the contractor shall keep the Board indemnified against any loss, cost and damage in the event of any action being taken for contravention.

(iii) If any enhancement in the rates of wages becomes payable as a result of the implementation of the Chief Labour Commissioner's interpretation of the Contract Labour (Regulation and Abolition) Central Rules, 1971 upto and including

an increase of 10% of the wages shall be borne by the Tenderer and enhancement in excess of 10% would be borne by the Port Trust.

(iv) ESI CLAUSE:

The details of employees proposed to be engaged shall be furnished to this office before the commencement of the work.

(a) As per the Govt. Notification dated 20.07.2009, Chennai Port Trust has registered under the ESI Act on 26.09.2012 with ESI Corporation and provision of ESI Act, 1948 are applicable to Chennai Port Trust, a Social Security Act, is applicable to Factories using power and employing 10 or more personnel and establishment employing 20 or more persons and drawing wages/salary upto Rs.15,000/- per month. Workers covered under ESI Act, are entitled for full medical care for self and family. Besides, cash benefit in the event of sickness, maternity and employment injury. Accordingly, the contractual/casual employees drawing wages upto Rs.15,000/- per month employed either directly by Port Trust or through contractor are covered under ESI Act, 1948. It is obligatory on the part of the employer to calculate and remit ESI contribution comprising of employers' share of 4.75% plus employees' share of 1.75% which is payable on or before 21st of the following month, to which the salary relates.

(b) In case of Contractor employs more than 20 employees, they should register their name with ESI as per ESI Act, 1948 and obtain ESI Code. Both Employers share of 4.75% and Employees contribution of 1.75% (recovered from employees), totally 6.5% to be paid as contribution to ESI in their Code on or before 21st of following month to which the salary relates and acknowledgement for the same shall be submitted to the Port while claiming the bill. The bill without the acknowledgment of ESI contribution will not be entertained. In case the contractor has not paid the ESI contribution same will be recovered in the running bill and paid to the ESI Corporation in contractor's code. The delay in payment of contribution payable under the Act may be recovered as an arrear of Land Revenue.

(c) In case the contractor employs less than 20 employees, the list of employees' names, their father's name, identification proof, one passport photo shall be submitted to the Port Trust. The contribution of ESI amount, both Employers share of 4.75% and Employees contribution of 1.75% (recovered from Employees salary), totally 6.5% shall be paid by the Contractor in the Chennai Port Trust Code on or before 21st of the following month to which the salary relates or otherwise payment to the contractor will be withheld. If the contractor fails to comply with the above instruction, then the Principal Employer (Chennai Port Trust) will make payment to the ESI Corporation. Such amount will be deducted from any amount due to the contractor. The delay in payment of contribution payable under the Act may be recovered as an arrear of Land Revenue.

(d) As per the above government Notification i) All intending tenderer at the time of Tender shall disclose all necessary documents as to whether they are covered under ESI Act or not.

ii) In case they are covered under ESI Act, they have to furnish the details of registration.

iii) In case the tenderer does not possess ESI Registration at the time of participation in the Tender, then they should obtain registration under ESI Regulations before award of the work by Chennai Port Trust and submit the same within 30 days from the date of issue of work order. Any payment towards the work order will be made only after the ESI registration.

iv) The Tenderer shall submit his first bill together with evidence of having obtained registration under ESI regulations and only then the bill will be processed for payment. Subsequently, the Tenderer should periodically submit to Chennai Port the Form 6 prescribed under ESI Regulations along with the proof for having remitted his dues under ESI Regulations in respect of the workers / labours employed for the work awarded by Chennai Port to facilitate making payment for the bills of the Contractor.

v) In case, the Tenderer is not covered under ESI Act or exempted, they would furnish necessary documents along with an affidavit in original affirming before a first class Judicial Magistrate in a Non Judicial Stamp Paper worth Rs.20.00 to that effect.

vi) In case they are not covered under ESI Act, they must additionally indemnify ChPT against all damages & accident occurring to his labour in a Non – Judicial Stamp paper worth Rs.100/-.

(v) Insurance

The Tenderer advised to take necessary insurance at his cost for his employees, materials and machineries etc.

29. Foreclosure of Contract:

I. Notwithstanding anything in the contract agreement the contractor agrees that the Trust (on its own or acting on behalf of the Government of India) or the Government of India shall be entitled to foreclose the contract on occurrence of the following events:

- i. In the event of breach of contract by the Contractor
- ii. An emergency or
- iii. for national security and /or national interest and /or public reasons.

II. Upon the occurrence of the events specified in the above I (i),(ii) and (iii) above the Trust or Government of India reserve the right to fore close the contract at any point of time during the contract period on the issue of the termination notice under provision of the termination clause , the Trust shall not be liable to compensate the contractor or any other person for any losses or estimated loss of profits during such period.

30. The Chief Mechanical Engineer reserves to himself the right to alter the specification or design of the works at any stage of the work and also to make additions or omissions or alterations.

31. Further Instructions

The Chief Mechanical Engineer shall have full power and authority to supply to the Contractor from time to time during the progress of the works such instructions as necessary for the purpose of the proper and adequate execution and maintenance of the works and the Contractor shall carry out and be bound by the same.

32. Any notice to the Tenderer shall be deemed to be sufficiently served if given or left in writing at his usual or last known place of abode or business or at site.

33. All payments made by the Board to the Tenderer under this contract shall be rounded off to the nearest paise.

34. (i) The contract is liable for cancellation if either the Tenderer himself or any of his employee is found to be a person who has held a Class I post under the Board immediately before retirement and has, within two years of such retirements, accepted without obtaining the previous permission of the Board of the Chairman as the case may be an employment as Tenderer for, or in connection with the execution of public works, as an employee of such Tenderer.

(ii) If any contract is terminated on account of the failure of the Tenderer to comply with the above clause the Board shall be entitled to recover from him such damages as may be determined by the Chief Mechanical Engineer with due regard to the inconvenience caused to the Trust on account of such termination without prejudice to the Trust's right to proceed against such officer.

35. It must be clearly understood that the rates mentioned in Schedule 'A1' are inclusive of everything required to be done by the conditions of the contract and specifications or by the drawings therein referred to and also all such work as is necessary for the proper completion of the Tenderer although special mention thereof may have been omitted in the specification or drawings.

36. In these conditions unless there is something in this subject or context inconsistent therewith words importing the singular shall include the plural and vice versa words importing the masculine gender shall include feminine and words importing persons shall include bodies corporate.

37. The technical specification – “Schedule-A” and Price Schedule – A1” to be read in conjunction to make sure of the supply and works involved.

38. The contractor is required to offer rates as per Trust's format “Schedule- A1” without fail and mention taxes and duties.

39. Necessary paid entry passes to be obtained by the contractor at their own cost.

40. The contractor is advised to visit the site if required.

41. The Trust will not be responsible for any loss or damage of Men/materials/plants engaged during the work.

42. The Contractor shall arrange their own tools and plants and other materials and components required for the above work.

43. All transport required for the work shall be arranged by the contractor at their own cost.

44. TERMINATION:

a) The employer, without prejudice to any other remedy for breach of contract, by written notice of default sent to the contractor, may terminate the contract.

i) If the contractor fails to deliver any or all of the Goods with in the period specified in the contract, or with in any extension thereof granted by the Employer.

ii) If the contractor fails to perform any other obligation under the contract (or)

iii) If the contractor, in the judgement of the Employer has engaged in fraud and corruption.

b) In the event the Employer terminates the Contract in whole or in part, the Employer may procure, upon such terms and in such manner as it deems appropriate, goods or related services similar to those undelivered or not performed, and the contractor shall be liable to the Employer for any additional cost for such similar goods or related services. However, the contractor shall continue performance of the contract to the extent not terminate. In such terminations Security deposit will be forfeited.

45. VARIATION:

- (j) Variation means variation in quantities of items ie. Where there is increase of quantities of items of work in the agreement. On other words, the nomenclature of work remains the same, but the quantity of variation is maximum 30 % against the Tender cost shown in the agreement. The said variation shall be executed after approval of the competent authority.
- (ii) The quantity of items in Schedule 'A1' are only Tentative.
- (iii) Payment shall be made to the Tenderer as per the actual work carried out at site.

**CHIEF MECHANICAL ENGINEER
CHENNAI PORT TRUST**

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