

**DETAILED LETTER OF ACCEPTANCE**

DLOA No.: TFL/TALCHER/C&P/RAW WATER SUPPLY/LOA-029/23-24 March 16, 2024

M/s G L Golden,  
Plot No. 145, Sector-31,  
City: Gurugram,  
District: Gurugram,  
State: Haryana, PIN/ZIP: 122002

Tel. No. : 0124-4145777  
Mob. No. : 9818486433  
Email ID : [info@glgolden.com](mailto:info@glgolden.com)

Kind Attn.: Mr. Ravi Kumar Yadav, PROPRIETOR

**Sub: Detailed Letter of Acceptance (DLOA) for "Balance Job of Supply, Erection, Testing & Commissioning of Permanent Raw Water Supply System and Allied Facilities on Item Rate Basis at Talcher Fertilizers Limited, Talcher, Odisha"**

**Ref.:**

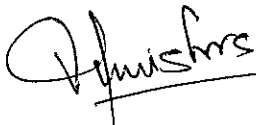
1. NIT / Tender Document No. **PNPM/PC-150/E-121/NCB Dated 21.07.2023** [E-Tender ID: 2023\_PDIL\_762911\_1] issued by PDIL (on behalf of TFL) and associated Amendment, if any for "Balance Job of Supply, Erection, Testing & Commissioning of Permanent Raw Water Supply System and Allied Facilities on Item Rate Basis at Talcher Fertilizers Limited, Talcher, Odisha."
2. Your Offer No. **GLG/TFL/23-24/001 DTD 08.08.2023** (E Bid No. 2859955) and all subsequent Correspondences received against above referred Tender and its associated Amendment, if any.
3. Our FOA (Fax of Acceptance) No. **TFL/TALCHER/C&P/RAW WATER SUPPLY/FOA-009/23-24 dated 13.12.2023**

Dear Sir / Madam,

Further to our FAX OF ACCEPTANCE (FOA) No. **TFL/TALCHER/C&P/RAW WATER SUPPLY/FOA-009/23-24 dated 13.12.2023**; we are pleased to issue this "Detailed Letter of Acceptance (DLOA) for "Balance Job of Supply, Erection, Testing & Commissioning of Permanent Raw Water Supply System and Allied Facilities on Item Rate Basis at Talcher Fertilizers Limited, Talcher, Odisha". The 'Detailed Letter of Acceptance' shall be executed strictly in accordance with the terms and conditions set out below:

**1.0 SCOPE OF WORK/TECHNICAL SPECIFICATIONS:**

Please refer Section VI of tender document (Tender No. PNPM/PC-150/E-121/NCB Dated 21.07.2023 and its associated Amendment, if any, floated by PDIL on behalf of TFL).





Page 1 of 8

## 2.0 CONTRACT VALUE

The total estimated Contract value shall be **INR 68,66,22,410/-** (Indian Rupees Sixty Eight Crore Sixty Six Lakh Twenty Two Thousand Four Hundred and Ten only) excluding GST and **INR 81,02,14,444/-** (Indian Rupees Eighty One Crore Two Lakh Fourteen Thousand Four Hundred and Forty Four only) including GST (presently @18%). Detailed SCHEDULE OF RATES (SOR) is attached as **Annexure – C**.

## 3.0 FIRM PRICE:

The unit rates appearing in the detailed SCHEDULE OF RATES (SOR) [**Annexure-C**] shall remain FIRM AND FIXED and valid until completion of the Contract and will not be subject to variation on any account, except specifically mentioned elsewhere in the tender document.

Any new taxes & Duties, if imposed by the State/ Govt. of India after due date of bid submission but before the Contractual Delivery Date, shall be reimbursed to the contractor on submission of documentary evidence for proof of payment to State/ Govt. Authorities and after ascertaining its applicability with respect to the contract. If any new taxes and/or duties are imposed beyond Completion/ Contract period for reasons not due to Owner's default, such taxes and duties shall be to Contractor's account.

If any new taxes and/or duties are imposed beyond Completion/ Contract period for reasons not due to Owner's default, such taxes and duties shall be to Contractor's account. If any new taxes and/or duties are imposed beyond Completion / Contract period for reasons due to Owner's default, such taxes and duties shall be to Owner's account.

Other terms and conditions w.r.t. statutory variation in taxes and duties shall be as per tender document and its associated Amendment(s).

## 4.0 TERMS & CONDITIONS:

This DLOA is strictly subject to all terms and conditions contained in the tender document No. PNPM/PC-150/E-121/NCB Dated 21.07.2023 and its associated Amendment, if any, issued against the NIT.

## 5.0 COMPLETION PERIOD:

Contractor shall be required to complete the WORK under the CONTRACT as mentioned below:

|  |   |
|--|---|
| <b>Completion Period / Completion Schedule</b> | 15 (Fifteen) Months Reckoned from Date of Issuance of this Fax of Acceptance (FOA) i.e. 13.12.2023. |
|--|---|

The basic consideration and essence of the Contract is the strict adherence to the Time schedules for performing the specified works as stipulated in the Contract.

If at any time, the Owner/ Consultant is of opinion that the Contractor has fallen behind the approved construction schedule, the Owner/ Consultant may, without any cost to Owner/ Consultant, require the Contractor to take such steps as may be necessary to improve his progress, especially require him to employ overtime operations, increase the number of shifts, work on holidays and Sundays or increase the capacity of his construction plant and equipment and require him to submit



evidence demonstrating the manner in which the Contractor proposes to comply with the construction schedule. Failure of the Contractor to comply with the above will be considered a failure to execute the work with due diligence.

All other Terms & Conditions related to "Completion Period / Completion Time / Time Schedule" shall be as per tender document and its associated Amendment, if any.

#### **6.0 PRICE REDUCTION SCHEDULE (PRS)**

Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 of GCC or due to EMPLOYER's defaults, the Total Contract price shall be reduced by ½ % of the total Contract Price per complete week of delay or part thereof subject to a maximum of 5 % of the Total Contract Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand.

The decision of the OWNER in regard to applicability of Price Reduction Schedule shall be final and binding on the CONTRACTOR.

Please also refer Clause No. 50 of Section-III of Tender document (Provision regarding invoice for reduced value or credit note towards PRS).

All other Terms & Conditions related to "PRS" shall be as per tender document and its associated Amendment(s).

#### **7.0 TAXES AND DUTIES:**

Please note that the responsibility of payment of **GST (CGST & SGST or IGST or UTGST)** lies with the Contractor of Goods / Services only. Supplier of Goods / Services (Service Provider) providing taxable service shall issue an Invoice/ Bill/ e-Invoice, as the case may be as per rules/ regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by Contractor of Goods / Services (Service Provider) with requisite details.

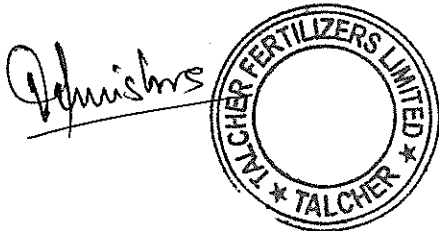
Payments to Service Provider for claiming **GST (CGST & SGST/UTGST or IGST)** amount will be made provided the above formalities are fulfilled. Further, OWNER may seek copies of challan and certificate from Chartered Accountant for deposit of **GST (CGST & SGST/UTGST or IGST)** collected from Owner.

The quoted price includes all taxes, duties, levies etc., as applicable at prevailing rates. In case, contractor has not included any such taxes, duties, levies etc., at all and/or at prevailing rates (deliberately or otherwise) and it becomes leviable during execution of the contract, then contractor has to pay all such taxes, duties, levies etc. and OWNER shall not be liable for payment of such liabilities and/or OWNER shall not reimburse such taxes, duties, levies etc. to the CONTRACTOR.

All other Terms & Conditions related to contract value / price & taxation shall be as per the tender document and its associated Amendment(s).

#### **8.0 CONTRACT AGREEMENT:**

A "Contract Agreement" [as per **Format F-23** (i.e. "**PROFORMA FOR CONTRACT AGREEMENT**") of Tender document] on Non-Judicial stamp paper (of appropriate



**DLOA NO.TFL/TALCHER/C&P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024**

value) shall be executed between the OWNER and the CONTRACTOR within fifteen (15) days from the date of issuance of FOA (i.e. 13.12.2023). The cost of stamp paper shall be borne by CONTRACTOR.

CONTRACTOR shall sign the CONTRACT AGREEMENT (in duplicate) and submit to the OWNER. OWNER shall sign both the copies and return one copy to the CONTRACTOR and retain the other copy. The CONTRACT AGREEMENT shall be signed by an authorized officer of the CONTRACTOR.

**Note:** Contract Agreement has already been executed between TFL and Contractor and a copy of the same is placed at **Annexure-A** of this DLOA.

**9.0 TERMS OF PAYMENT:**

The 'Terms of Payment' shall be governed by the terms enumerated in Clause No. 40.0 of SCC (Section-V) of the Tender Document and its associated Amendment, if any.

**PAYING AUTHORITY**

Director (Finance),  
Talcher Fertilizers Limited  
Administrative Building  
Talcher, Post: Vikrampur,  
Dist: Angul, Pincode: 759106  
Odisha.

Any other provision related to "Terms of Payment / Payment Terms" shall be as per the tender document and its associated Amendment(s).

**10.0 COMPENSATION FOR EXTENDED STAY**

NOT APPLICABLE

**11.0 Compliance to DMI & SP (Domestically Manufactured Iron & Steel Products) Policy**

The above Policy shall be as per Gazette notification dated 29<sup>th</sup> May, 2019 and its subsequent Amendment attached as Appendix-I to Section-II (Bid Evaluation Criteria & Evaluation Methodology) of Tender Document and its associated Amendment(s). Contractor shall ensure compliance to the DMI&SP policy.

**12.0 Compliance to "Public Procurement (Preference to Make in India) Order 2017"**

You have given undertaking in your bid document that you are to be considered as a "Local supplier" under "Public Procurement (Preference to Make in India) Order 2017" by virtue of meeting the mandatory minimum Local Content requirement of 50% specified in the said policy. Accordingly, the provisions of the said policy dated 16.09.2020 as attached with the tender document and its associated Amendment(s) shall be applicable for this contract.


**13.0 DEFECT LIABILITY PERIOD:**

Defect Liability Period shall be 12 months from the date of completion of works in all respects as declared by EIC.

All other Terms & Conditions related to "Defect Liability Period" shall be as per the tender document and its associated Amendment(s), if any.

**14.0 CONTRACT PERFORMANCE SECURITY (CPS) / SECURITY DEPOSIT (SD)**

The CONTRACTOR shall furnish Contract Performance Security / Security Deposit to the EMPLOYER, within 30 days from the date of issuance of 'Fax of Acceptance'. The Contract Performance Security shall be in the form of either Banker's Cheque or Demand Draft or Insurance Surety Bond or Fixed Deposit Receipt or Letter of Credit or Bank Guarantee as per **Form F-4** and shall be in the currency of the Contract.

The value / amount of Contract Performance Security/ Security Deposit shall be as under:

(a) CPS / SD @ 10% of Total order / contract value (excluding GST) within 30 days of from the date of issuance of 'Fax of Acceptance'.

Or

(b) Initial Security Deposit (ISD) @ 5% of Total Contract value (excluding GST) within 30 days from the date of issuance of 'Fax of Acceptance' and deduction @ 10% of the RA Bill subsequently from RA bills till the total amount of security deposit (including ISD and deducted amount) reaches 10% of total contract value (excluding GST).

The Contract Performance Security shall be towards faithful performance of the contractual obligations and performance of the equipment. For other details, please refer Clause No. 38 of Section – III of Tender i.e. Instructions to Bidders.

The original "Contract Performance Security (CPS) / Security Deposit (SD)" (by way of Bank Guarantee or Demand Draft or Banker's Cheque or Insurance Surety Bond or Fixed Deposit Receipt or Letter of Credit) shall be sent to following address:

Mr. Vivek Mishra,  
Sr. Manager (C&P)  
Administrative Building  
Talcher Fertilizers Limited,  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin - 759106  
Odisha

**Note:**

- In case CPS is submitted by way of Bank Guarantee, the non-judicial Stamp paper of appropriate value only or equivalent document value shall have to be purchased in the name of the bank executing the bank guarantee and not in the name of the CONTRACTOR.
- In case CPS is submitted by way of Bank Guarantee/IMPS/NEFT/RTGS/SWIFT etc., the bank details of TFL is as under–

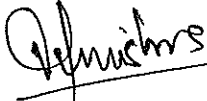
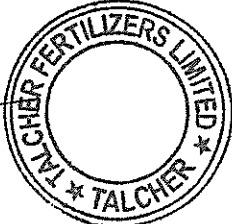
**Account holder's name:** Talcher Fertilizers Limited

**Bank Name:** State Bank of India

**Branch:** CAG II, New Delhi

**Account Number:** 41256023769

**Type (Current/Saving):** Current

IFSC code: SBIN0017313

All other Terms & Conditions related to Contract Performance Security (CPS) / Security Deposit (SD)" shall be as per the tender document and its associated Amendment(s).

**15.0 AHR (ABNORMALLY HIGH RATE) ITEMS**

The list of AHR items is attached as **Annexure - D**.

The payment of AHR items beyond the SOR stipulated quantities shall be made at the lowest amongst the following rates:

- i) Rates as per SOR, attached with this DLOA.
- ii) Rate of the item, which shall be derived as follows:
  - a. Based on rates of Machine and labour as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).
  - b. In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labour plus 15% to cover contractor's supervision profit, overhead & other expenses.

All other Terms & Conditions related to "AHR (Abnormally High Rate) Items" shall be as per the tender document and its associated Amendment(s).

**16.0 ENGINEER-IN-CHARGE (EIC):**

EIC shall be Mr. U.P. Tudu, ACM (Civil), PDIL, Mobile No. 09818075598, E-mail: [uptudu@pdil.co.in](mailto:uptudu@pdil.co.in) / [pdilrcm@tflonline.co.in](mailto:pdilrcm@tflonline.co.in)

You are requested to contact above mentioned official for further instructions.

**17.0 INTEGRITY PACT AGREEMENT**

INTEGRITY PACT shall be applicable for this contract. The Integrity Pact Agreement is placed at **Annexure - E**.

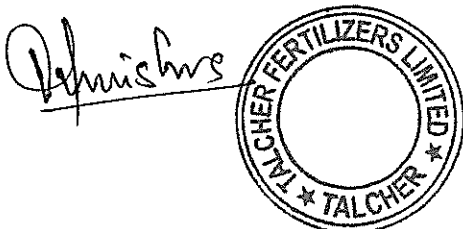
**18.0 BANK DETAILS:**

The Bank Detail of M/s G L Golden is attached as **Annexure-F**.

**19.0 POST ORDER CORRESPONDENCE**

**(A) Head Office (PDIL-Noida)**

TO,  
Mr. Kailash Joshi  
Project Manager,  
M/s Projects & Development India Limited,  
P.D.I.L Bhawan, A-14, Sector-1,  
Noida -201301  
E-Mail: [kjoshi@pdilin.com](mailto:kjoshi@pdilin.com)



**COPY TO:**

- (1) Mr. U.P. Tudu,  
Engineer-In-Charge / ACM (Civil), PDIL  
Administrative Building  
Talcher Fertilizers Limited,  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin - 759106  
Odisha  
E-Mail: [uptudu@pdil.co.in](mailto:uptudu@pdil.co.in)
- (2) Mr. S. S. Patil,  
COO (D/S)  
Administrative Building,  
Talcher Fertilizers Limited  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin – 759106  
Odisha  
E-Mail: [coods@tflonline.co.in](mailto:coods@tflonline.co.in)
- (3) Mr. Dhiraj Nigotiya, CM (Mech.) / Sh. Amartya Paul, Sr. Engineer (Const.)  
Administrative Building,  
Talcher Fertilizers Limited  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin – 759106  
Odisha  
E-Mail: [drnigotiya@tflonline.co.in](mailto:drnigotiya@tflonline.co.in) / [amartya.paul@tflonline.co.in](mailto:amartya.paul@tflonline.co.in)

**(B) For Site Related Activities (at TFL, Talcher)**

TO,

Mr. U.P. Tudu,  
Engineer-In-Charge / ACM (Civil), PDIL  
Administrative Building  
Talcher Fertilizers Limited,  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin - 759106  
Odisha  
E-Mail: [uptudu@pdil.co.in](mailto:uptudu@pdil.co.in)

**COPY TO:**

- (1) Mr. Kailash Joshi  
Project Manager,  
M/s Projects & Development India Limited,  
P.D.I.L Bhawan, A-14, Sector-1,  
Noida -201301  
E-Mail: [kjoshi@pdilin.com](mailto:kjoshi@pdilin.com)
- (2) Mr. S. S. Patil,  
COO (D/S)  
Administrative Building,  
Talcher Fertilizers Limited  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin – 759106


Odisha  
E-Mail: [coods@tflonline.co.in](mailto:coods@tflonline.co.in)

- (3) Mr. Dhiraj Nigotiya, CM (Mech.) / Sh. Amartya Paul, Sr. Engineer (Const.)  
Administrative Building,  
Talcher Fertilizers Limited  
Talcher, Post: Vikrampur,  
Dist. Angul, Pin – 759106  
Odisha  
E-Mail: [drnigotiya@tflonline.co.in](mailto:drnigotiya@tflonline.co.in) / [amartya.paul@tflonline.co.in](mailto:amartya.paul@tflonline.co.in)

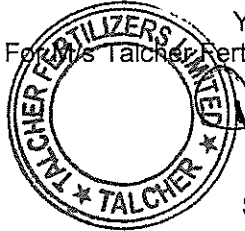
## 20.0 OTHERS TERMS & CONDITIONS OF CONTRACT

All other terms and conditions of the contract shall be governed by Tender No. PNP/PC-150/E-121/NCB Dated 21.07.2023 and all associated Amendment(s) issued against the NIT.

This DLOA is being issued to regularize the FAX OF ACCEPTANCE No. TFL/TALCHER/C&P/RAW WATER SUPPLY/FOA-009/23-24 dated 13.12.2023.

This Detailed Letter of Acceptance (DLOA) along with all enclosures is being issued to you in duplicate. You are requested to return to us one copy, duly signed and stamped on each page.

Thanking you,

Yours faithfully,  
For M/s Talcher Fertilizers Limited,  
  
*Vivek Mishra*  
16/03/2024  
(Vivek Mishra)  
Sr. Mgr. (C&P)

### ENCLOSURES:

1. Annexure-A Contract Agreement executed between M/s. Talcher Fertilizers Ltd. and M/s G L Golden, Gurugram (4 Pages, Page No.1333 to 1336)
2. Annexure-B FOA No. TFL/TALCHER/C&P/RAW WATER SUPPLY/FOA-009/23-24 dated 13.12.2023 (3 Pages, Page No. 1330 to 1332)
3. Annexure-C Schedule of Rates (SOR) [59 Pages, Page No. 1271 to 1329]
4. Annexure-D List of AHR items (8 Pages, Page No. 1263 to 1270)
4. Annexure-E Pre-Signed Integrity Pact Agreement (10 Pages, Page No. 1253 to 1262)
5. Annexure-F Bank details of M/s G L Golden, Gurugram (3 Pages, Page No. 1250 to 1252)
6. Annexure-G Public Procurement (Preference to Make In India) Order 2017 (12 Pages, Page No. 1238 to 1249)
7. Annexure-H Provision for procurement from a bidder which shares a land border with India (2 Pages, Page No. 1236 to 1237)
8. Annexure-I Complete set of Tender Document No. PNP/PC-150/E-121/NCB Dated 21.07.2023 [1235 Pages, Page No. 1 to 1235]

*Vivek Mishra*



001336

**ANNEXURE- A**  
**CONTRACT AGREEMENT**

001335

Bond

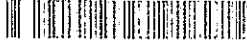


Indian-Non Judicial Stamp  
Haryana Government



Date : 19/12/2023

Certificate No. G0S2023L1204



Stamp Duty Paid : ₹ 101

GRN No. 110675311



(Rs. Only)

Penalty : ₹ 0

(Rs. Zero Only)

Deponent

Name : G L Golden

H.No/Floor : 145

Sector/Ward : 31

Landmark : Na

City/Village : Gurugram

District : Gurugram

State : Haryana

Phone : 98\*\*\*\*\*00



Purpose : CONTRACT AGREEMENT to be submitted at Concerned office

The authenticity of this document can be verified by scanning this QR code through smart phone or on the website <https://cgrashry.nic.in>**CONTRACT AGREEMENT**

DLOA/FOA No. TFL/TALCHER/C&amp;P/RAW WATER SUPPLY/FOA-009/23-24 dated 13.12.2023

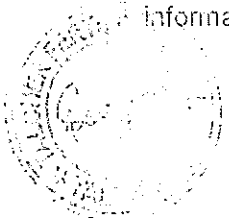
TFL's PAN No.: AAFCT8667A

Contract Agreement for the work of "Balance job of Supply, Erection, Testing & Commissioning of Permanent Raw Water Supply System and Allied facilities" on item Rate basis at Talcher Fertilizers Limited, Talcher, Odisha" of TALCHER FERTILIZERS LIMITED made on 20.12.2023 between G L Golden, Plot No 145, Sector-31, Gurugram-122002, Haryana. hereinafter called the "CONTRACTOR" (which term shall unless excluded by or repugnant to the subject or context include its successors and permitted assignees) of the one part and TALCHER FERTILIZERS LIMITED hereinafter called the "EMPLOYER" (which term shall, unless excluded by or repugnant to the subject or context include its successors and assignees) of the other part.

WHEREAS

A. The EMPLOYER being desirous of having provided and executed certain work mentioned, enumerated or referred to in the Tender Documents including Letter Inviting Tender, General Tender Notice, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, Plans, Time Schedule of completion of jobs, Schedule of Rates, Agreed Variations, other documents has called for Tender.

B. The CONTRACTOR has inspected the SITE and surroundings of WORK specified in the Tender Documents and has satisfied himself by careful examination before submitting his tender as to the nature of the surface, strata, soil, sub-soil and ground, the form and nature of site and local conditions, the quantities, nature and magnitude of the work, the availability of labour and materials necessary for the execution of work, the means of access to SITE, the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and thing referred to, or implied in the tender documents or having any



*[Handwritten signature]*

connection therewith and has considered the nature and extent of all probable and possible situations, delays, hindrances or interferences to or with the execution and completion of the work to be carried out under the CONTRACT, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the WORK and which might have influenced him in making his tender.

C. The Tender Documents including the Notice Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates, General Obligations, SPECIFICATIONS, DRAWINGS, PLANS, Time Schedule for completion of Jobs, Letter of Acceptance of Tender and any statement of agreed variations with its enclosures copies of which are hereto annexed form part of this CONTRACT though separately set out herein and are included in the expression "CONTRACT" wherever herein used.

AND WHEREAS

The EMPLOYER accepted the Tender of the CONTRACTOR for the provision and the execution of the said WORK at the rates stated in the schedule of quantities of the work and finally approved by EMPLOYER (hereinafter called the "Schedule of Rates") upon the terms and subject to the conditions of CONTRACT.

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED AND DECLARED AS FOLLOWS: -

1. In consideration of the payment to be made to the CONTRACTOR for the WORK to be executed by him, the CONTRACTOR hereby covenants with EMPLOYER that the CONTRACTOR shall and will duly provide, execute and complete the said work and shall do and perform all other acts and things in the CONTRACT mentioned or described or which are to be implied there from or may be reasonably necessary for the completion of the said WORK and at the said times and in the manner and subject to the terms and conditions or stipulations mentioned in the contract.

2. In consideration of the due provision, execution and completion of the said WORK, EMPLOYER does hereby agree with the CONTRACTOR that the EMPLOYER will pay to the CONTRACTOR the respective amounts for the WORK actually done by him and approved by the EMPLOYER at the Schedule of Rates and such other sum payable to the CONTRACTOR under provision of CONTRACT, such payment to be made at such time in such manner as provided for in the CONTRACT.

AND

3. In consideration of the due provision, execution and completion of the said WORK the CONTRACTOR does hereby agree to pay such sums as may be due to the EMPLOYER for the services rendered by the EMPLOYER to the CONTRACTOR, such as power supply, water supply and others as set for in the said CONTRACT and such other sums as may become payable to the EMPLOYER towards the controlled items of consumable materials or towards loss, damage to the EMPLOYER'S equipment, materials construction plant and machinery, such payments to be made at such time and in such manner as is provided in the CONTRACT.

It is specifically and distinctly understood and agreed between the EMPLOYER and the CONTRACTOR that the CONTRACTOR shall have no right, title or interest in the SITE made available by the EMPLOYER for execution of the works or in the building, structures or work executed on the said SITE by the CONTRACTOR or in the goods, articles, materials etc., brought on the said SITE (unless the same specifically belongs to the CONTRACTOR) and the CONTRACTOR shall not have or deemed to have any lien whatsoever charge for unpaid bills will not be entitled to assume or retain possession or control of the SITE or structures and the EMPLOYER shall have an absolute and unfettered right to take full possession of SITE and to remove the CONTRACTOR, their servants, agents and



materials belonging to the CONTRACTOR and lying on the SITE.

The CONTRACTOR shall be allowed to enter upon the SITE for execution of the WORK only as a licensee simpliciter and shall not have any claim, right, title or interest in the SITE or the structures erected thereon and the EMPLOYER shall be entitled to terminate such license at any time without assigning any reason.

The materials including sand, gravel, stone, loose, earth, rock etc., dug up or excavated from the said SITE shall, unless otherwise expressly agreed under this CONTRACT, exclusively belong to the EMPLOYER and the CONTRACTOR shall have no right to claim over the same and such excavation and materials should be disposed off on account of the EMPLOYER according to the instruction in writing issued from time to time by the ENGINEER-IN-CHARGE.

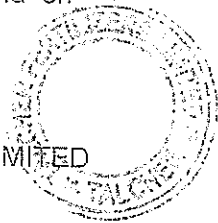
In Witness whereof the parties have executed these presents in the day and the year first above written.

Signed and Delivered for and on behalf of EMPLOYER

*[Handwritten signature]*

TALCHER FERTILIZERS LIMITED

*[Handwritten initials]*



Signed and Delivered for and on behalf of the CONTRACTOR.

For G L GOLDEN

G L Golden

*[Handwritten signature]*  
Proprietor

\_\_\_\_\_

Date: \_\_\_\_\_

Place: \_\_\_\_\_

IN PRESENCE OF TWO WITNESSES

1. *[Handwritten signature]*  
\_\_\_\_\_

2. *[Handwritten signature]*  
\_\_\_\_\_

\_\_\_\_\_

Date: 20.12.2023

Place: GURUGRAM

1. *[Handwritten signature]*  
\_\_\_\_\_

2. *[Handwritten signature]*  
\_\_\_\_\_

001332

**ANNEXURE-B**

**FOA NO. TFLITALCHER/C&P/RAW  
WATER SUPPLY/FOA-009/23-24**

**Dated 13.12.2023**

001331

तालचेर फर्टिलाइजर्स लिमिटेड  
TALCHER FERTILIZERS LIMITED

[erstwhile Rashtriya Coal Gas Fertilizers Limited]

विशेष पहचान क्रमांक / Corporate Identification Number (CIN) : U24120OR2015PLC019575

FAX OF ACCEPTANCE (FOA)

FOA No. TFL/TALCHER/C&P/RAW WATER SUPPLY/FOA-009/23-24

Dec 13, 2023

TO : M/S G L GOLDEN, GURUGRAM  
ATTN. : MR. RAVI KUMAR YADAV, PROPRIETOR  
TEL. NO. : 9818486438 / 0124-4145777  
E-MAIL : [info@glgolden.com](mailto:info@glgolden.com)  
FROM : MR. VIVEK MISHRA, SENIOR MANAGER (C&P)

1. PLEASE REFER TO (A) TENDER NO. PNP/PC-150/E-121/NCB DATED 21.07.2023 [2023\_PDIL\_762911\_1] FLOATED BY PDIL (ON BEHALF OF TFL) FOR "BALANCE JOB OF SUPPLY, ERECTION, TESTING & COMMISSIONING OF PERMANENT RAW WATER SUPPLY SYSTEM AND ALLIED FACILITIES ON ITEM RATE BASIS AT TALCHER FERTILIZERS LIMITED, TALCHER, ODISHA" AND ITS SUBSEQUENT AMENDMENTS (B) YOUR OFFER NO. GLG/TFL/23-24/001 DATED 08.08.2023 (E-BID NO. 2859955) AND (C) ALL SUBSEQUENT CORRESPONDENCES THEREOF.

2. BASED ON ABOVE, WE ARE PLEASED TO ISSUE THIS "FAX OF ACCEPTANCE (FOA)" AT A TOTAL ESTIMATED CONTRACT VALUE OF INR 68,66,22,410/- (INDIAN RUPEES SIXTY EIGHT CRORE SIXTY SIX LAKH TWENTY TWO THOUSAND FOUR HUNDRED AND TEN ONLY), EXCLUSIVE OF GST AND INR 81,02,14,444/- (INDIAN RUPEES EIGHTY ONE CRORE TWO LAKH FOURTEEN THOUSAND FOUR HUNDRED AND FORTY FOUR ONLY) INCLUSIVE OF GST. PRESENTLY @18%.

3. COMPLETION PERIOD:

COMPLETION PERIOD SHALL BE 15 (FIFTEEN) MONTHS RECKONED FROM DATE OF ISSUANCE OF THIS FAX OF ACCEPTANCE (FOA).

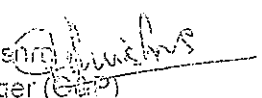
4. CONTRACT PERFORMANCE SECURITY (CPS) / SECURITY DEPOSIT (SD):

YOU ARE REQUIRED TO SUBMIT CONTRACT PERFORMANCE SECURITY (CPS) / SECURITY DEPOSIT (SD) WITHIN 30 DAYS FROM THE DATE OF ISSUANCE OF THIS FOA, FOR [10% (TEN PERCENT) OF TOTAL CONTRACT VALUE (EXCLUDING GST)] OR [INITIAL SECURITY DEPOSIT (ISD) @ 5% OF TOTAL CONTRACT VALUE AND DEDUCTION @ 10% OF THE RA BILL SUBSEQUENTLY FROM RA BILLS TILL THE TOTAL AMOUNT OF SECURITY DEPOSIT (INCLUDING ISD AND DEDUCTED AMOUNT) REACHES 10% OF TOTAL CONTRACT VALUE (EXCLUDING GST)]. IN LINE WITH CLAUSE NO. 38 OF ITB (INSTRUCTION TO BIDDERS) & BIDDING DATA SHEET OF TENDER DOCUMENT AND AMENDMENTS THEREOF, IF ANY.

Registered Office: Plot 2/H, Kalpana Area, BJB Nagar, Khordha, Bhubaneswar - 751014,  
Site Office: Administrative Building, Talcher Fertilizers Limited, Talcher, Post- Vikrampur, Dist.- Angul, Odisha-759106

For B. L. GOLDEN

  
Proprietor

  
Vivek Mishra  
Senior Manager (C&P)  
Talcher Fertilizers Limited  
Talcher, Odisha

001330

FOA NO. TFL/TALCHER/C&P/RAW WATER SUPPLY/FOA-009/23-24 DATED 13.12.2023

6. CONTRACT AGREEMENT:

YOU ARE REQUIRED TO SUBMIT CONTRACT AGREEMENT WITHIN 15 DAYS FROM THE DATE OF ISSUANCE OF THIS FOA, ON NON-JUDICIAL STAMP PAPER IN LINE WITH CLAUSE NO. 37 OF ITB (INSTRUCTION TO BIDDERS) OF TENDER DOCUMENT AND AMENDMENTS THEREOF, IF ANY.

8. INTEGRITY PACT:

THIS CONTRACT SHALL BE GOVERNED BY INTEGRITY PACT AS ATTACHED WITH THE TENDER DOCUMENT.

7. PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) POLICY:

YOU HAVE GIVEN UNDERTAKING IN YOUR BID DOCUMENT THAT YOU ARE TO BE CONSIDERED AS A "LOCAL SUPPLIER" UNDER "PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) ORDER 2017" BY VIRTUE OF MEETING THE MANDATORY MINIMUM LOCAL CONTENT REQUIREMENT OF 50% SPECIFIED IN THE SAID POLICY. ACCORDINGLY, THE PROVISIONS OF THE SAID POLICY DATED 16.09.2020 AS ATTACHED WITH THE TENDER DOCUMENT SHALL BE APPLICABLE FOR THIS CONTRACT.

ALL OTHER TERMS AND CONDITIONS SHALL BE AS PER TENDER NO. PNP/PC-150/E-121/NCB DATED 21.07.2023 [2023\_PDIL\_762911\_1] AND ALL ASSOCIATED AMENDMENTS ISSUED THEREOF AGAINST THE TENDER. A "DETAILED LETTER OF ACCEPTANCE (DLOA)" SHALL FOLLOW.

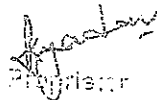
YOU ARE REQUESTED TO ACKNOWLEDGE RECEIPT OF THIS FOA.

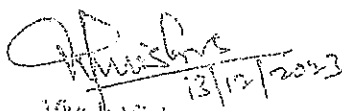
FOR TALCHER FERTILIZERS LIMITED

For G. L. GOLDEN

CC: BY COURIER TO

M/S G L GOLDEN,  
PLOT NO. 148, SECTOR-31  
GURUGRAM,  
HARYANA - 122002

  
Proprietor

  
13/12/2023  
Vivek Mishra  
Senior Manager (C&P)  
Talcher Fertilizers Limited  
Talcher, Odisha

001329

**ANNEXURE-C**  
**SCHEDULE OF RATES (SOR)**




001328

ANNEXURE 'C' TO DLOA No. TFL/TALCHER/C&P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 1.00  | PART A: SUPPLY & ERECTION OF MECHANICALS WORKS   |          |       |                                  |                            |
| 2.00  | PIPELINE LAYING / INSTALLATION (CARBON STEEL PIPES) UG/AG  |          |       |                                  |                            |
| 3.00  | GENERAL NOTE:  |          |       |                                  |                            |
| 3.10  | "Taking over" as defined in the specifications, handling, loading, transportation, unloading and Laying of bare/coated line pipes and other materials like valve, fittings, flanges, supply & application of 3LPE coating materials, required size casing pipe etc. from Contractors suppliers locations/works etc. to Contractor's stock yard/works/work-site including preliminary activities, preparation of drawings, wherever required for crossing etc. Handling, stacking, stringing of the line pipe on the pipeline Right-of-Use/ Pipeline route alignment, Carrying out inspection of materials including line pipes at the time of laying/ installation of line pipes, associated valves, tees, insulating joints, flanges & fittings for buried application of all sizes, thickness & ANSI class rating and accessories as per specification wherever required depending on site condition.  |          |       |                                  |                            |
| 3.11  | Arrangement of all additional lands required for Contractor's storage, fabrication, access for construction, etc. procurement and supply of all materials, consumables, equipment, labour and other inputs, carrying out all temporary, ancillary, auxiliary works, etc. make ready for commissioning of pipeline as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works: Counting the number and type of trees cut in presence of DFO/concerned authorities and keeping record there of cutting/uprooting of trees within ROU, shifting of all obstruction within the ROU/pipeline route alignment viz. electrical line/pole, telephone line (poles), foreign pipeline, coordination with concerned authorities and obtaining work permits/NOC from these authorities/Statutory approvals   |          |       |                                  |                            |
| 3.12  | Bartracing the pipeline construction area prior to execution to the entire satisfaction of Owner / Engineer-in-charge. Checking, cleaning, aligning, bending, cutting and beveling (as required) of pipes for welding and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of weld joints found defective by Engineer-in-Charge, carrying out re-radiography and other tests as required on repaired joints. Carrying out installation of carrier pipe at all crossings like roads/railways/Nallah at designated depths by open cutting/jacking/boring (cased crossings/ crossings carried out by HDD/AUGER BORING method)   |          |       |                                  |                            |
| 3.13  | Crossing all the foreign pipeline/HT line/cable/any other utilities etc. with necessary concrete /PVC protection including coordination with all agencies and obtaining NOC. Supply of coating materials for all field joints, bends, elbows, buried fittings and valves etc. including supply of coating materials etc. (i.e. heat shrinkable sleeves and high build epoxy etc./or equivalent polyethylene materials.) as per Technical Specification compatible with coating material of the line pipe. Trenching to all depths and to a width to accommodate the new pipeline installation / lowering the pipeline in trench to required depth as per Technical Specification & drawings. Carrying out air cleaning, flushing, cleaning and hydrostatic testing of complete pipeline including pre-testing of designated sections complete as per specification and approved by Engineer-in-Charge to specified pressures indicated elsewhere and duration after stabilization as per specification, providing all equipment, pumps, fittings, instruments, dead weight tester, pressure recorder, thermocouples etc., and services, supervision, labour, consumables, water including supply of air, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by Engineer-in-charge |          |       |                                  |                            |
| 3.14  | Backfilling & Compaction of trench and final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris / excavated concrete pipes and surplus material to designated disposal areas and re-installing the area to its original condition as per satisfaction of Owner and / or as directed by Engineer-in-charge. Installation of all buried valves (except extended stem valves) inside the valve pit and making provision to operate the valve. ANY OTHER UNSPECIFIED CAUSED CROSSING BY BORING / OPEN CUT METHOD FOR ROAD CROSSING BY Boring Preparation of required length of carrier pipeline welded string including all other works as mentioned in item no. 2.0 and specification/ drawings. Insertion of carrier pipe in casing pipe after above ground pretesting at mentioned in item no. 2.0 above and as per specification/ drawings. Installation of vent and drain assembly, fixing of end seals, backfilling and restoration as original of the facilities crossed and performing all other works including cleaning, final hydro testing etc. along with mainline works and as per specification, approved procedure, drawing etc. and instruction of Engineer-in-charge and provision of contract document   |          |       |                                  |                            |

*Signature*  


## SCHEDULE OF RATE (SOR)

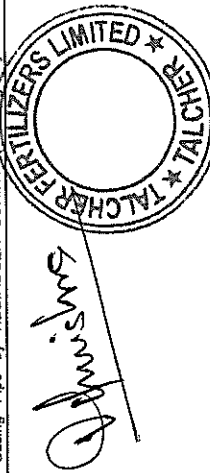
| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 3.15  | All supplies are on FOR destination (Contractor storage yard at site) including Transportation from manufacture's works to site including transit insurance" and site activity (value as indicated in SOR) should cover unloading, stacking, storage and all further work thereafter.   |          |       |                                  |                            |
| 4.00  | PIPELINE LAYING / INSTALLATION OF ABOVE GROUND PIPELINE (if any)  |          |       |                                  |                            |
| 4.10  | GENERAL NOTE:   |          |       |                                  |                            |
| 4.11  | Supply Fabrication including cutting, edge preparation, inclusive of grinding the edges of pipes, fittings, flanges etc. to match with grinding the edges of pipes, fittings, flanges etc. to match with the matching edges of uneven / different thickness wherever required fit - up bending, welding threading etc. pipe fittings like elbows, tees, reducers, socklets, etc. flanges, vent and drain point connection etc. including providing stub - in connection, fabricated fittings and reinforcement pads etc. as required, supporting/Thrust Block.<br>Erection of pipes of all types and thickness at all elevations, connecting with equipment nozzle, aligning, installation and carrying out connected activities for all types of valves, all online instruments and fittings of all sizes of elbow, reducers, tees, flanges blind flange, spectacle blind flanges, branch connection / tapping, vents and drains, required for process and hydrotesting, tapping for pressure gauges thermowells sample connections, etc. including supply and fixing of all types of gaskets balls and nuts for all sizes. Carrying out Non-destructive testing as per specification.   |          |       |                                  |                            |
| 4.12  | Surface preparation before application of primer by means of sand blasting including supply of approved quality of abrasive, manpower, machines, tools & tackles to achieve required roughness as per specification and as per instruction of Engineer-in-charge. Painting of entire system (including all pipes and accessories) as per specification, including supply of approved paints and primers, preparation of surface and application of primer and paint, identification lettering/numbering, colour coding, etc. as specified including rub down & touch up of shop primer or scraping of shop primer wherever required by CLIENT and providing scaffolding (if required) for all heights etc.<br>Cleaning and flushing by water/compressed air, testing of the system including hydrostatic and any other type of testing as specified, draining, and drying by compressed air / other methods approved by CLIENT.<br>Completion of all such work in all respect as per scope of work and as per drawings specifications and instructions of the CLIENT and keeping the system ready in all respects for further commissioning and start up.   |          |       |                                  |                            |
| 4.13  | Precommissioning & making operational all piping system and equipments. Commissioning Contractor scope shall provide all necessary assistance in term of supply of man-power, equipment, tools and tackles required amount of nitrogen for purging of entire piping system etc. to the company during commissioning activities.<br>Completion of all such work in all respects as per scope of work and as per drawings, specifications and instructions of the COMPANY and keeping the system ready in all respects for further commissioning and start.   |          |       |                                  |                            |
| 5.00  | PIPELINE LAYING / INSTALLATION (CARBON STEEL PIPES AS GIVEN BELOW) :  |          |       |                                  |                            |
| 5.10  | LAYING OF UNDER GROUND/ABOVE GROUND PIPE LINES  |          |       |                                  |                            |
| 5.11  | INSTALLATION OF NEW 36", 20" 18" & 6" 3/4" PE COATED PIPES<br>INSTALLATION OF NEW PIPELINE: Installation of coated linepipes, with inner lining/painting, associated fittings and accessories, etc. as per scope of work, specifications, drawings, etc and provisions of the contract and as per instruction of Engineer-in-charge including but not limited to following: transportation and handling of linepipes from contractor's storage yard to worksite, Carrying out repairs of pipe defects/replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner/including defects / damages occurring during transportation/handling/transportation/handling. Stripping, Aligned, bending, cutting and beveling (as required), NDT of bevelled area, weld joints radiography as per SOR clause 1.10, carrying out repair of weld joints, re- radiography and other NDT without any extra cost to owner.Coating of all field joints, long radius bends buried fittings, etc; excavation/associated civil work, lowering the pipelines in trench, backfilling, carrying out hydrostatic testing & associated works, providing all equipments, pumps fittings, instruments, supervision, labour, consumables, water, air, etc., locating leaks, re-testing after rectification carrying out all temporary, ancillary works and all incidental & associated works to complete the laying work. Disposal of debris, preparation of As-Built drawings, pipe- book and other records. Trenching to all depths by excavation in all types of soils including soft/hard rock and different type of pavement / footpath / roads etc. including rock breaking, chiseling or otherwise cutting etc.( Excavation item shall be paid as per item mentioned in civil SOR) as required and storing top surface materials, excavated soil, reusable materials at designated area as directed by Engineer in charge as per the relevant standard / specification etc. |          |       |                                  |                            |



*Adwism*

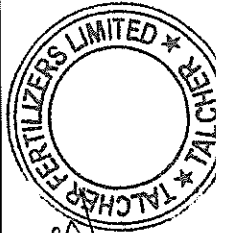
SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 5.12  | Checking, cleaning, aligning, bending, cutting and beveling (as required) of pipes for welding and field adjustments including pipe fittings, welding/Welding of Elbow, Tee, Flanges Reducers Weldolet & Sockets etc), carrying out non-destructive testing of welds as required (to be paid separately), supporting/Thrust Block. All welding of including the fittings of the pipeline with the adjacent sections of pipeline including cutting of test header, rebeveling as required. Carrying out repairs of pipe defects/replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects / damages occurring during transportation/handling & repair due to modification or damage in existing pipeline if any during execution of site job.   |          |       |                                  |                            |
| 5.13  | {36" NB) 3LPE COATED PIPES ERW/SAW, ASTM API 5L GR.B BE, SCH XS with inner lining/Painting   | 8000.00  | Meter | 13550.00                         | 108400000                  |
| 5.14  | {20" NB) 3LPE COATED PIPES ERW, API 5L GR, BE, SCH 10 with inner lining/Painting   | 630.00   | Meter | 7500.00                          | 4725000                    |
| 5.15  | {18" NB) 3LPE COATED PIPES ERW, API 5L GR, BE, SCH 10 with inner lining/Painting   | 20.00    | Meter | 5000.00                          | 100000                     |
| 5.16  | {6" NB) , 3LPE COATED PIPES SMLS, API 5L GR, B, BE, SCH 40 with inner lining/Painting  | 30.00    | Meter | 4000.00                          | 120000                     |
| 5.17  | NOTES :  |          |       |                                  |                            |
| 5.18  | Only Factory made pipes are acceptable   |          |       |                                  |                            |
| 5.19  | This item shall be applicable for the underground steel grid main pipeline & branch pipeline including, valves, tees, bends (R=3D/1.5), flanges & fittings, accessories etc, and above ground approach pipeline.   |          |       |                                  |                            |
| 5.20  | In above item, restoration works are to be paid as separate elsewhere mentioned in SOR.  |          |       |                                  |                            |
| 5.21  | In above item, backfilling of pipeline trench by borrowed select soil duly approved by Owner /EIC shall be paid by separate item mentioned elsewhere in the SOR.   |          |       |                                  |                            |
| 5.22  | Contractor shall not perform any pipeline activities along ROU without specified barricading and other safety measures.  |          |       |                                  |                            |
| 5.23  | vii) The quantities given in above item no. are tentative only and shall not be considered to be binding. The quantities may be increased, decreased or deleted as per the actual site requirement and instructions / recommendations of Owner. The unit rate shall be operated to work out the final payment to the contractor.   |          |       |                                  |                            |
| 5.24  | Above price shall be inclusive of all type of taxes & duties, transit insurance during transportation & other insurance etc. Including all financial & commercial implication as per the tender document except GST. No other payment except as per quoted unit rate & executed quantities will be payable by the Owner. Owner/EIC shall be paid by separate item mentioned elsewhere in the SOR. The above item rate is exclusive of crossings by HDD, case/ open cut crossings which are to be paid as separate elsewhere mentioned in the SOR. The above rates shall be inclusive of hydrotesting of complete pipeline, including hydrotesting of all crossings sections along with the mainline.   |          |       |                                  |                            |
| 6.00  | INSTALLATION OF PIPELINE INCLUDING SUPPLY OF CASING PIPE IN CROSSING BY HDD/AUGER BORING   |          |       |                                  |                            |
| 6.10  | Installation of carrier pipes by HDD/AUGER BORING method without casing pipe by HDD/AUGER BORING for road, highway & Railway crossings wherever required in all types of soils and terrain, including all associated works, including supply of all Contractor supplied materials viz. supply of Casing Pipe - IS-3589, 10.0MM THK material with Collar Epoxy coated (Externally). Materials for casing vents and drains etc, including supply of all other materials, equipment, consumables, manpower, welding including visual inspection of all weld joints, testing, installation of Casing Pipe, casing insulators, end seals, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Engineer-in-Charge and provisions of contract document. Direct heat shrinkable sleeves shall be applied for joint coating in case of HDD without casing. Details of Crossing by HDD/AUGER BORING |          |       |                                  |                            |
| 6.11  | Crossings at various locations as decided by EIC at site as per concerned authority requirement.<br>Line pipe detail (36" Carrier pipe) 3LPE COATED PIPES ERW/SAW, ASTM API 5L GR.B BE, SCH XS or equivalent ERW 3LPE Coated pipe with 42" Casing Pipe -IS-3589, 10.0MM THK material with Collar Epoxy coated (Externally) by HDD/AUGER BORING (Road Highway Crossing)   | 250.00   | Meter | 15500.00                         | 3875000.00                 |
| 6.12  | Line pipe detail (36" Carrier pipe) 3LPE COATED PIPES ERW/SAW, ASTM API 5L GR.B BE, SCH XS or equivalent ERW 3LPE Coated pipe without Casing Pipe by HDD/AUGER BORING (Road Highway Crossing)  | 200.00   | Meter | 15500.00                         | 3100000.00                 |



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 6.13  | Line pipe detail (36") 3LPE COATED PIPES ERWSAW/ASTM API 5L GR.B. BE.SCH.XS or equivalent ERW 3LPE Coated without Casing Pipe by HDD (Other Crossing)   | 100.00   | Meter | 15500.00                         | 1550000.00                 |
| 6.14  | Line pipe detail (36") 3LPE COATED PIPES ERWSAW/ASTM API 5L GR.B. BE.SCH.XS or equivalent ERW 3LPE Coated by HDD/AUGER BORING without Casing Pipe (Railway Crossing)  | 140.00   | Meter | 15500.00                         | 2170000.00                 |
| 6.15  | Line pipe detail (36") 3LPE COATED PIPES ERWSAW/ASTM API 5L GR.B. BE.SCH.XS or equivalent ERW 3LPE Coated by HDD/AUGER BORING with 42" Casing Pipe -IS-3589 ,10.0MM THK material with Collar Epoxy coated(Externally). (Railway Crossing)   | 80.00    | Meter | 15500.00                         | 1240000.00                 |
| 6.16  | Line pipe detail (36") 3LPE COATED PIPES ERWSAW/ASTM API 5L GR.B. BE.SCH.XS or equivalent ERW 3LPE Coated Through Bridge (Canal Crossing/Nallah/River)  | 80.00    | Meter | 15500.00                         | 1240000.00                 |
| 6.17  | Note:-  |          |       |                                  |                            |
| 6.18  | Crossing width may vary as per site condition. Tenderer are advised to visit site for actual assessment of extent of crossing. Actual string length for HDD/AUGER BORING shall be as per design calculations so that pipe is not under stress as permitted by codes/specifications. However final length of string & cover from top of pipe shall be decided by concerned Authority/ Engineer-in-charge.  |          |       |                                  |                            |
| 6.19  | Payment for the length of final tied-in carrier pipeline string with mainline laid by HDD/AUGER BORING method are inclusive in the above item rate and no separate payment shall be made under other item mentioned elsewhere.  |          |       |                                  |                            |
| 6.20  | Installation of Casing Pipe, Casing insulators , casing end seals ,casing vents and drains etc are inclusive in above item rate. Payment for Supply of casing pipes shall be made under item mentioned elsewhere in SOR.  |          |       |                                  |                            |
| 6.21  | Quantities of above crossings indicated are tentative. The widths indicated are not for any single crossings. This shall be as per requirement at site for crossing at different locations.   |          |       |                                  |                            |
| 7.00  | ANY OTHER UNSPECIFIED CASED CROSSING BY BORING / OPEN CUT METHOD FOR ROAD CROSSING  |          |       |                                  |                            |
| 7.10  | By Boring - Complete work of the other road crossings (between the limits as defined at site and decided by Engineer-in-charge) including supply, handling, loading, transportation, unloading to Contractor's own stock yard/work site of casing pipe of size as specified, duly coated epoxy coated of minimum 300 micron conforming to IS:3589 or equivalent ERW pipe, casing insulators and casing end seals as per enclosed specification/ drawings, materials for casing vents and drain assembly etc. including supply of all other materials, equipments, consumables, manpower, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain - off pipes for steel casing, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Engineer -in-Charge and provisions of contract document |          |       |                                  |                            |
| 7.11  | 42" Casing Pipe -IS-3589 ,10.0MM THK material with Collar Epoxy coated(Externally) (for36" NB Pipeline) Casing pipe installation by Open Cut/Jacking/ boring method   | 70.00    | Meter | 8500.00                          | 595000.00                  |
| 7.12  | Note:-  |          |       |                                  |                            |
| 7.13  | Widths of above crossings indicated are tentative. The widths indicated are not for any single crossings. This shall be as per requirement at site for crossing at different locations.   |          |       |                                  |                            |
| 7.20  | Payment for the lengths of carrier pipeline string with mainline laid by above method is Exclusive in the above item rate and separate payment shall be made under SOR item no.1.1 &1.2.  |          |       |                                  |                            |
| 8.00  | RESTORATION OF ROAD   |          |       |                                  |                            |
| 8.10  | Restoration of asphalt/concrete/red stone roads/pavement/Paver block including compaction of soil, to original condition as per requirement and to the entire satisfaction of Owner and / or Authorities having jurisdiction for following pavement thickness.  |          |       |                                  |                            |
| 8.11  | Restoration of Asphalt road upto 10cm thickness   | 1200.00  | Sq M  | 950.00                           | 1140000.00                 |
| 8.12  | Restoration of Asphalt road beyond 10 cm upto 20cm thickness  | 120.00   | Sq M  | 1050.00                          | 126000.00                  |
| 8.13  | Restoration of Concrete road upto 10 cm thickness   | 150.00   | Sq M  | 1050.00                          | 157500.00                  |
| 8.14  | Restoration of red stone road/footpath/pavement upto 4 cm thickness   | 80.00    | Sq M  | 950.00                           | 85500.00                   |
| 8.15  | Restoration of Paver Block  | 400.00   | Sq M  | 950.00                           | 380000.00                  |
| 8.16  | Restoration of Brick Pitched Road upto 75 mm thick  | 200.00   | Sq M  | 750.00                           | 150000.00                  |



001324

## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY  | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|-----------|-------|----------------------------------|----------------------------|
|       |  |           |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 8.17  | Note: The quantities mentioned above are tentative   |           |       |                                  |                            |
| 9.00  | BORROWED LOCAL/FOREIGN SELECT SOIL FOR BACKFILLING   |           |       |                                  |                            |
| 9.10  | Additional work over and above item 1.0 for supply of specified and approved quality of borrowed local soft graded soil / sand in place of available excavated material and / or other suitable soil as per applicable standards / specifications, including backfilling of excavated trench for specified length after laying and padding of pipeline, including local transportation of such special backfill material over all distances, complete.   | 125000.00 | Cu M  | 850.00                           | 106250000.00               |
| 9.11  | Note:- The quantities mentioned above are tentative  |           |       |                                  |                            |
| 10.00 | PRE-COMMISSIONING AND ASSISTANCE IN COMMISSIONING OF PIPELINE SYSTEM   |           |       |                                  |                            |
| 10.10 | Swabbing, drying of the complete pipeline network and the associated facilities being instated to the specified acceptance criteria, carrying out pre-commissioning works, providing assistance during the complete duration of commissioning operations for entire pipeline network system including supply of all equipment, man-power, consumables, materials for all temporary works and performing all associated works, complete as per the relevant specifications, other provisions of Contract document and instructions of Engineer-in-charge. |           |       |                                  |                            |
| 10.11 | For 36" NB ,3LPE Coated UG/AG Pipeline   | 13000.00  | Meter | 320.00                           | 4160000.00                 |
| 10.12 | (20" NB) 3LPE COATED PIPES ERW,API 5L GR,BE,SCH 10 with inner lining/Painting  | 630.00    | Meter | 175.00                           | 110250.00                  |
| 10.13 | (18" NB) 3LPE COATED PIPES ERW,API 5L GR,BE,SCH 10 with inner lining/Painting  | 20.00     | Meter | 150.00                           | 3000.00                    |
| 11.00 | VALVE PITS   |           |       |                                  |                            |
| 11.10 | All civil works including supply of all materials, excavation of pit, piping supports including all PCC and RCC works for valves pits including pedestals with insert plates as required sealing of pipe at valve pits, providing cover (Chequered plates) with handle etc. and finishing, clean-up and restoration of site, filling and grading of area around valve station for avoiding any local flooding of areas, as per typical drawing and specification enclosed and instructions of Engineer-in-charge.  |           |       |                                  |                            |
| 11.11 | Valve Pit of Size 2.5 x 2.5m (with lockable MS steel top cover plate).   | 4.00      | Nos   | 17750.00                         | 71000.00                   |
| 12.00 | INSTALLATION OF VALVES etc.  |           |       |                                  |                            |
| 12.10 | 36" BUTTERFLY VALVE  | 4.00      | Nos   | 15000.00                         | 60000.00                   |
| 12.11 | 18" CHECK VALVE  | 4.00      | Nos   | 13500.00                         | 54000.00                   |
| 12.12 | 18" GATE VALVE   | 4.00      | Nos   | 13000.00                         | 52000.00                   |
| 12.13 | 6" KINETIC AIR VALVE, 150#   | 4.00      | Nos   | 8500.00                          | 34000.00                   |
| 12.14 | 1" GATE VALVE  | 50.00     | Nos   | 3500.00                          | 175000.00                  |
| 12.15 | 1" GLOB VALVE  | 50.00     | Nos   | 3500.00                          | 175000.00                  |
| 12.16 | 3/4" GLOB VALVE  | 4.00      | Nos   | 2500.00                          | 10000.00                   |



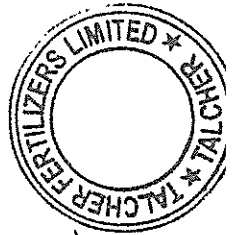
## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS    | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|----------|----------------------------------|----------------------------|
|       |   |          |          | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 12.17 | 3/4" GATE VALVE   | 9.00     | Nos      | 2500.00                          | 22500.00                   |
| 12.18 | Note: The quantities mentioned above are tentative  |          |          |                                  |                            |
| 13.00 | MODIFICATION OF 6" EXISTING PIPELINES (IF REQUIRED).<br>Modification of 6" EXISTING PIPELINES if required got damaged during laying of 36" line.  |          |          |                                  |                            |
| 13.10 | FLAME CUTTING C.S PIPING up to 10mm thick   | 10.00    | Inch dia | 350.00                           | 3500.00                    |
| 13.11 | HACKSAW CUTTING C.S PIPING up to 10mm thick   | 60.00    | Inch dia | 550.00                           | 33000.00                   |
| 13.12 | BEVELLING C.S PIPING up to 10mm thick   | 10.00    | Inch dia | 650.00                           | 6500.00                    |
| 13.13 | Fit up & Welding C.S up to 10mm thick   | 10.00    | Inch dia | 2500.00                          | 25000.00                   |
| 14.00 | SUPPLY OF MOVING MACHINERY  |          |          |                                  |                            |
| 14.10 | DESIGN, SUPPLY, TESTING & COMMISSIONING OF ELECTRIC MOTOR DRIVEN CENTRIFUGAL PUMP WITH ASSOCIATED INSTRUMENTATION AND CONTROL SYSTEM (Supply of Pumps & its Drive Motor Etc. As per PNP/MP/PC/150/E/11/SEC-VI-4.0). Vertical Centrifugal Raw water Pumps with drive motors as per process description and Technical Specification of NIT  | 4.00     | Nos      | 7850000.00                       | 31400000.00                |
| 14.11 | Design, Engineering, Manufacturing, Testing, Inspection, Supply of 01 no. Double girder/ double rail type EOT Crane having 12 T main hoist hook capacity with 5 T Aux hoist including its drives and all other relevant electrical & instrumentation for Raw water Pump House as per PNP/MP/PC/150/E/11/SEC-VI-4.2  | 1.00     | Lot      | 3350000.00                       | 3350000.00                 |
| 14.12 | Design, Engineering, Manufacturing, Testing, Inspection, Supply, of 01 no. Mono rail type EOT Crane having 7.5 T capacity including its drives and all other relevant electrical & instrumentation for trash rack maintenance bay as per PNP/MP/PC/150/E/11/SEC-VI-4.2  | 1.00     | Lot      | 2775000.00                       | 2775000.00                 |
| 15.00 | ERECTION/INSTALLATION OF PUMPS ALONG WITH COMPLETE ASSEMBLY: Loading, Unloading, transportation, Erection, alignment, grouting & testing of pumps including all associated works. Grouting shall be paid as per 8.3 of SOR  | 40.00    | MT       | 23750.00                         | 950000.00                  |
| 16.00 | ERECTION/INSTALLATION OF EOT CRANE WITH COMPLETE ASSEMBLY:  |          |          |                                  |                            |
| 16.10 | Loading, Unloading, transportation, Erection, Testing & Commissioning of EOT including its drives and all other relevant electrical items as per TS ATTACHED IN TENDER. This shall also include testing, commissioning to complete electrical equipment as required in TS & other associated work if any.   |          |          |                                  |                            |
| 16.11 | Loading, Unloading, transportation, Erection, Testing & Commissioning of EOT Crane having 12 T main hoist hook capacity with 5 T Aux hoist including its drives and all other relevant electrical & instrumentation for Raw water Pump House as per PNP/MP/PC/150/E/11/SEC-VI-4.2   | 1.00     | Lot      | 34000.00                         | 34000.00                   |
| 16.12 | Loading, Unloading, transportation, Erection, Testing & Commissioning of EOT Crane having 7.5 T capacity including its drives and all other relevant electrical & instrumentation for trash rack maintenance bay as per PNP/MP/PC/150/E/11/SEC-VI-4.2   | 1.00     | Lot      | 22500.00                         | 22500.00                   |
| 17.00 | GRROUTING   |          |          |                                  |                            |
| 17.10 | Owner/Consultant. Machineries with 2500 H.P., Available of M/s CIBA Geigy or equivalent shall be used. For tall towers having height more than 10 Meter and weight more than 25 MT, SHRINKOM - 20 or Contextra GF-2 shall be used. However, for balance equipments / machineries and structural ordinary 1:1.2 cement grout mix added with anti-shrinkage compound shall be used without any extra cost to Owner. |          |          |                                  |                            |



SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 17.11 | SHRINKOMP-20 Or Conbextra GP-2  | 2.00     | M3    | 95000.00                         | 190000.00                  |
| 17.12 | EPOXY GROUTING  | 1.00     | M3    | 1037500.00                       | 1037500.00                 |
| 18.00 | SUPPLY OF PIPES/PIPELINES, FITTINGS, FLANGES & VALVES etc   |          |       |                                  |                            |
| 18.10 | Complete works of supply of pipes for (below mentioned length), flanges, fittings & valves for underground/Above Ground installation including all taxes, duties (EXCEPT GST) transportation and inspection charges but not limited to, the following items in accordance with relevant specifications & drawings indicated in job specification under this technical documents and instructions of Engineer-in-charge and as per all provisions of the CONTRACT. |          |       |                                  |                            |
| 18.11 | Handling including filling, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site for field fabrication and erection for all piping items supplied by Contractor.   |          |       |                                  |                            |
| 19.00 | PIPES   |          |       |                                  |                            |
| 19.10 | 36" ,3LPE COATED PIPES ERWISAW,ASTM API 5L GR.B BE,SCH XS with epoxy internal lining/Painting   | 8000.00  | Mtr.  | 43250.00                         | 346000000.00               |
| 19.11 | 20" ,3LPE COATED PIPES ERWISAW, API 5L GR.B,SCH 10,BE with internal lining/Painting   | 620.00   | Mtr.  | 15500.00                         | 9610000.00                 |
| 19.12 | 18" ,3LPE COATED PIPES ERWISAW,API 5L GR.B,SCH 10,BE with internal epoxy internal lining/Painting   | 20.00    | Mtr.  | 8000.00                          | 160000.00                  |
| 19.13 | 6" ,3LPE COATED PIPES SMLS,API 5L GR.B, BE,SCH 40 with epoxy internal lining/ Painting  | 30.00    | Mtr.  | 6000.00                          | 180000.00                  |
| 19.14 | 4" SMLS PIPE,BE ,API 5L GR.B,SCH 40   | 1.00     | Mtr.  | 5000.00                          | 5000.00                    |
| 19.15 | 3" SMLS PIPE,BE ,API 5L GR.B,SCH 40   | 1.00     | Mtr.  | 4500.00                          | 4500.00                    |
| 20.00 | BLIND FLANGE  |          |       |                                  |                            |
| 20.10 | 36" ASME B16.47 SR.B, 150# CS ASTM A105-RF 125 AARH   | 2.00     | Nos   | 55000.00                         | 110000.00                  |
| 21.00 | CAP   |          |       |                                  |                            |
| 21.10 | 0.5 ,CAP (THD) -ASME B16.11, A105,3000#   | 4.00     | Nos   | 75.00                            | 300.00                     |
| 21.11 | 0.75 ,CAP (THD) -ASME B16.11, A105,3000#  | 8.00     | Nos   | 125.00                           | 1000.00                    |
| 21.12 | 1.0 ,CAP (THD) -ASME B16.11, A105, 3000#  | 100.00   | Nos   | 150.00                           | 15000.00                   |
| 22.00 | VALVES  |          |       |                                  |                            |



*Adhishans*

001321

SCHEDULE OF RATE (SOR)

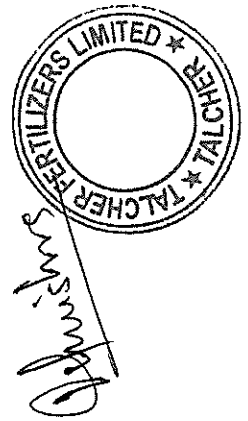
| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 22.10 | 36" BUTTERFLY VALVE, 150#  | 4.00     | Nos   | 61500.00                         | 246000.00                  |
| 22.11 | 18" CHECK VALVE, 150#  | 4.00     | Nos   | 41500.00                         | 166000.00                  |
| 22.12 | 18" GATE VALVE, 150#   | 4.00     | Nos   | 48500.00                         | 194000.00                  |
| 22.13 | 6" KINETIC AIR VALVE, 150#   | 4.00     | Nos   | 31500.00                         | 126000.00                  |
| 22.14 | 1" GATE VALVE, 800#  | 50.00    | Nos   | 3050.00                          | 152500.00                  |
| 22.15 | 1" GLOBE VALVE, 800#   | 50.00    | Nos   | 3000.00                          | 150000.00                  |
| 22.16 | 3/4" GLOBE VALVE, 800#   | 4.00     | Nos   | 2250.00                          | 9000.00                    |
| 22.17 | 3/4" GATE VALVE, 800#  | 9.00     | Nos   | 2000.00                          | 18000.00                   |
| 23.00 | ELBOW  |          |       |                                  |                            |
| 23.10 | 36" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW36" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW   | 50.00    | Nos   | 15500.00                         | 775000.00                  |
| 23.11 | 36" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW36" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW   | 100.00   | Nos   | 25500.00                         | 2550000.00                 |
| 23.12 | 36" ELBOW 45 DEG, 3D-ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW36" ELBOW 45 DEG, 3D-ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW           | 5.00     | Nos   | 40500.00                         | 202500.00                  |
| 23.13 | 36" ELBOW 90 DEG, 3D-ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW36" ELBOW 90 DEG, 3D-ASME B16.9 SCHXS ASTM A234 WPB-WLDD, BW           | 10.00    | Nos   | 62500.00                         | 625000.00                  |
| 23.14 | 36" ELBOW 45 DEG, 3D (Miter Bend) SCHXS, CS (As per pipe material)   | 5.00     | Nos   | 19500.00                         | 97500.00                   |
| 23.15 | 36" ELBOW 90 DEG, 3D (Miter Bend) SCHXS, CS (As per pipe material)   | 10.00    | Nos   | 31500.00                         | 315000.00                  |
| 23.16 | 20" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCH10 ASTM A234 WPB-WLDD, BW20" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCH10 ASTM A234 WPB-WLDD, BW   | 2.00     | Nos   | 9500.00                          | 19000.00                   |
| 23.17 | 20" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCH10 ASTM A234 WPB-WLDD, BW20" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCH10 ASTM A234 WPB-WLDD, BW   | 6.00     | Nos   | 15500.00                         | 93000.00                   |
| 23.18 | 18" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCH 10 ASTM A234 WPB-WLDD, BW18" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCH 10 ASTM A234 WPB-WLDD, BW | 1.00     | Nos   | 7500.00                          | 7500.00                    |
| 23.19 | 18" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCH 10 ASTM A234 WPB-WLDD, BW18" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCH 10 ASTM A234 WPB-WLDD, BW | 4.00     | Nos   | 13000.00                         | 52000.00                   |





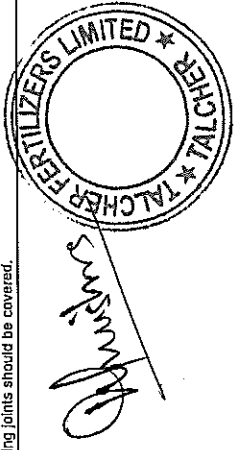
SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 23.20 | 6" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCH 40 ASTM A234 WPB-SMLS,BW 6" ELBOW 90 DEG, 1.5D, -ASME B16.9 SCH 40 ASTM A234 WPB-SMLS,BW                          | 5.00     | Nos   | 3000.00                          | 15000.00                   |
| 23.21 | 6" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCH 40 ASTM A234 WPB-SMLS,BW 6" ELBOW 45 DEG, 1.5D, -ASME B16.9 SCH 40 ASTM A234 WPB-SMLS,BW                          | 5.00     | Nos   | 3000.00                          | 15000.00                   |
| 24.00 | FLANGE   |          |       |                                  |                            |
| 24.10 | 11/2" LONG W.N.FLANGE, ASME B16.5, 300#, 24mm Bore, 200mm Long, CS ASTM A105 1/2" LONG W.N.FLANGE, ASME B16.5, 300#, 24mm Bore, 200mm Long, CS ASTM A105 | 1.00     | Nos   | 1000.00                          | 1000.00                    |
| 24.11 | 6" SLIP ON FLANGE, ASME B16.5, CS ASTM A105, 150# 6" SLIP ON FLANGE, ASME B16.5, CS ASTM A105, 150#  | 9.00     | Nos   | 2850.00                          | 25650.00                   |
| 24.12 | 18" SLIP ON FLANGE, B16.5-150#-CS ASTM A105 SO-REF 125 AARH18" SLIP ON FLANGE, B16.5-150#-CS ASTM A105 SO-REF 125 AARH                                   | 20.00    | Nos   | 9850.00                          | 197000.00                  |
| 24.13 | 36" W.N. FLANGE-150#, ASME B16.47 SR.B CS ASTM A105 SCH XS W.N.FLANGE-150#, W.N. FLANGE-150#, ASME B16.47 SR.B CS ASTM A105 SCH XS W.N.FLANGE-150#       | 10.00    | Nos   | 15500.00                         | 155000.00                  |
| 24.14 | 4" SLIP ON Flange CS ASTM A105 SO-REF 125 AARH, 150# 4" SLIP ON Flange CS ASTM A105 SO-REF 125 AARH, 150#  | 1.00     | Nos   | 750.00                           | 750.00                     |
| 24.15 | 3" SLIP ON Flange CS ASTM A105 SO-REF 125 AARH, 150# 3" SLIP ON Flange CS ASTM A105 SO-REF 125 AARH, 150#  | 1.00     | Nos   | 650.00                           | 650.00                     |
| 25.00 | INSULATING JOINT   |          |       |                                  |                            |
| 25.10 | 36" SCH XS x BE, INSULATING JOINT-ASME B 31.3  | 4.00     | Nos   | 83500.00                         | 334000.00                  |
| 26.00 | COUPLING   |          |       |                                  |                            |
| 26.10 | 1/2", ASME B16.11, CS ASTM A105, 3000#, THD  | 5.00     | Nos   | 550.00                           | 2750.00                    |
| 27.00 | NIPPLE   |          |       |                                  |                            |
| 27.10 | 3/4"-NIPPLE (P-P)- SMLS,SMLS,API 5L GR.B SCH160  | 13.00    | Nos   | 85.00                            | 1105.00                    |
| 27.11 | 3/4"-NIPPLE (P-T)- SMLS,SMLS,API 5L GR.B SCH160  | 13.00    | Nos   | 85.00                            | 1105.00                    |
| 27.12 | 1"-NIPPLE (P-P)- SMLS,SMLS,API 5L GR.B SCH160  | 100.00   | Nos   | 135.00                           | 13500.00                   |
| 27.13 | 1"-NIPPLE (P-T)- SMLS,SMLS,API 5L GR.B SCH160  | 100.00   | Nos   | 155.00                           | 15500.00                   |
| 28.00 | SOCKOLET-  |          |       |                                  |                            |
| 28.10 | SOCKOLET-18"X3/4" MSS SP 97 CS ASTM A105-3000# SOCW  | 12.00    | Nos   | 450.00                           | 5400.00                    |
| 28.11 | SOCKOLET-36"X3/4" MSS SP 97 CS ASTM A105-3000# SOCW  | 1.00     | Nos   | 900.00                           | 900.00                     |



SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS        | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|--------------|----------------------------------|----------------------------|
|       |  |          |              | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 28.12 | SOCKET-36"X1" MSS SP 97 CS ASTM A105-3000# SCCW  | 100.00   | Nos          | 1050.00                          | 105000.00                  |
| 29.00 | GASKET   |          |              |                                  |                            |
| 29.10 | 36"-GASKET (SPRL-WND RF), TP304 SS WDG,GPH FLR;TP304 SS INR RING;CS OTR RING, ASME B16.20-150#   | 10.00    | Nos          | 2350.00                          | 23500.00                   |
| 29.11 | 18"-GASKET (SPRL-WND RF), TP304 SS WDG,GPH FLR;TP304 SS INR RING;CS OTR RING, ASME B16.20-150#   | 20.00    | Nos          | 1550.00                          | 31000.00                   |
| 29.12 | 6"-GASKET (SPRL-WND RF), TP304 SS WDG,GPH FLR;TP304 SS INR RING;CS OTR RING, ASME B16.20-150#  | 9.00     | Nos          | 350.00                           | 3150.00                    |
| 29.13 | 1 1/2"-GASKET (SPRL-WND RF), TP304 SS WDG,GPH FLR;TP304 SS INR RING;CS OTR RING, ASME B16.20-150#  | 1.00     | Nos          | 100.00                           | 100.00                     |
| 30.00 | STUD & 2NUTS   |          |              |                                  |                            |
| 30.10 | 1/2"-75mm-STUD & 2NUTS HVY HEX-ASTM A193 GR.B7/ASTM A194 GR.2H   | 4.00     | Nos          | 15.00                            | 60.00                      |
| 30.11 | 3/4"-100mm-STUD & 2NUTS HVY HEX-ASTM A193 GR.B7/ASTM A194 GR.2H  | 72.00    | Nos          | 25.00                            | 1800.00                    |
| 30.12 | 1 1/8"-150mm-STUD & 2NUTS HVY HEX-ASTM A193 GR. 7/ASTM A194 GR.2H  | 320.00   | Nos          | 175.00                           | 56000.00                   |
| 30.13 | 1 1/2"-275mm-STUD & 2NUTS HVY HEX-ASTM A193 GR.B7/ASTM A194 GR.2H  | 320.00   | Nos          | 350.00                           | 112000.00                  |
| 30.14 | Note:  |          |              |                                  |                            |
| 30.15 | Pipe Specification and thickness may vary depending upon availability of pipe. No extra payment shall be made for this.  |          |              |                                  |                            |
| 30.16 | All butt welded fittings & flanges end shall generally match with connecting pipe wall thickness. However, in case of misalignment, Contractor shall have to do end preparation without any extra cost.  |          |              |                                  |                            |
| 30.17 | The quantities mentioned above are tentative.  |          |              |                                  |                            |
| 31.00 | SWAGE (CONC);3/4"X1/2" MSS SP 95,ASTM A234 WPB-SMLSCH80SCH80(PLN-THD)  | 5.00     | Nos          | 2500.00                          | 12500.00                   |
| 32.00 | BRANCH WELD WITH RP  |          |              |                                  |                            |
| 32.10 | 36"X20"SCH XS, CARCAN STEEL  | 1.00     | Nos          | 55000.00                         | 55000.00                   |
| 32.11 | 36"X18"SCH XS, CARCAN STEEL  | 4.00     | Nos          | 50000.00                         | 200000.00                  |
| 32.12 | COATING MATERIALS (SUPPLY & APPLICATION)   |          |              |                                  |                            |
| 32.13 | Field LPE Coating ITEM FOR SITE WORKS (Field joints), Materials as specified in Specification in NIT   | 2000.00  | SQ.Mtr       | 1550.00                          | 3100000.00                 |
| 33.00 | REPAIR OF COATING DEFECTS IN 3 LAYER PE COATING LINE PIPE  |          |              |                                  |                            |
| 33.10 | Supply of all coating repair materials as per requirement of specification, supply of all consumables, utilities, equipments and all manpower required, pipe cleaning and surface preparation, repairing of coating defects and testing including all handling, transportation, etc. for line pipes, performing all works necessary for the completion of the works strictly in accordance with relevant specification and instructions of Engineer -in - Charge. This rate shall be applicable per sq-cm of the exposed steel area. | 323.00   | SQ.Mtr       | 550.00                           | 177650.00                  |
| 34.00 | RADIOGRAPHY  |          |              |                                  |                            |
| 34.10 | 36" NB-carrying out RT of welds as required. (Considering length of pipe 12mts each)<br>Note-Specially all Crossing joints should be covered.  | 117.00   | No of Joints | 4000.00                          | 468000.00                  |



## SCHEDULE OF RATE (SOR)

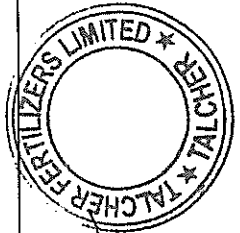
| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS        | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|--------------|----------------------------------|----------------------------|
|       |  |          |              | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 34.11 | 20" NB carrying out RT of welds as required. (Considering length of pipe 12mts each)   | 10.00    | No of Joints | 3000.00                          | 30000.00                   |
| 34.12 | 18" NB carrying out RT of welds as required. (Considering length of pipe 12mts each)   | 5.00     | No of Joints | 2500.00                          | 12500.00                   |
| 34.13 | 6"NB carrying out RT of welds as required. (Considering length of pipe 12mts each)   | 6.00     | No of Joints | 2000.00                          | 12000.00                   |
| 35.00 | STRUCTURAL WORKS   |          |              |                                  |                            |
| 35.10 | Pipe Supports & Other Structures   |          |              |                                  |                            |
| 35.11 | Supply, fabrication and erection of all types of pipe supports like clamps, saddle, guide stops, cradles, turn buckles, anchors, T-posts; stockade/ trellis and pipe bridge for overhead piping; frames for canopy, approach ladders and platforms, crossover, cable tray supports, Crash barrier and Base frame modification of Pump Intake etc. including painting suitable for highly corrosive area as per specification labour and supervision & complete work as per drawings, specifications and instruction of Engineer-in-charge. (Bolts, nuts, washers, U-clamps etc. for supporting shall be supplied by the Contractor within the rates quoted. These items will not be measured and paid separately). The work is to be completed in all respect as per scope of work and specification.  | 15.00    | MT           | 985000.00                        | 1477500.00                 |
| 36.00 | Notes:   |          |              |                                  |                            |
| 36.10 | The quantities indicated are estimated values and hence are approximate. Final payment will be made based on actual quantities to be certified by the Consultant/EIC.  |          |              |                                  |                            |
| 36.11 | The cost of MS bolts (permanent and service), washers, electrodes, putty, gases, cost of straightening the raw materials, cutting of flats from plates and providing splices, paints, tools, plants etc., as required for the work shall be deemed to be included in the quoted rates.   |          |              |                                  |                            |
| 36.12 | All handling and transport charges of raw materials and fabricated structures including double handling, as required, for completion of work in accordance with time schedule, are deemed to be included in the quoted rates.  |          |              |                                  |                            |
| 37.00 | ROU Management for mainline works<br>ROU management of entire pipeline route covered under SOR item no 37.10, during preconstruction survey, opening of ROU and maintenance of ROU upto completion of entire mainline works (including CP); all type of liaison/coordination with local people /villagers, farmers, land owners or any other person/institution/ authority etc. directly or indirectly linked with the pipeline /affected by the pipeline laying activities for ensuring hindrance free construction works at the site obtaining work permits, NOC from various statutory authorities having jurisdiction for execution of the crossings under mainline works (SOR item 37.10) and complying with all stipulations/conditions/recommendations of the said authorities.<br>NOTES:<br>1. Statutory fees/payments to farmers etc against ROU opening shall be paid by the owner. Statutory Fees, if any shall be paid by Owner as per Govt. Norms.<br>2. Payment shall be paid as below.<br>a) 40 % after completion of lowering & back filling<br>b.) 50 % after completion of lowering & back filling<br>c.) 10 % after obtaining NCC (after restoration) from respective land owner/farmer and statutory authorities as required |          |              |                                  |                            |
| 37.10 | ROU Management for mainline works  | 9000.00  | Meiter       | 2000.00                          | 18000000.00                |
| 38.00 | Utility Pipeline of Repair/Modification.   |          |              |                                  |                            |
| 38.10 | diameter 500,  | 100.00   | Inch dia     | 35000.00                         | 3500000.00                 |
| 38.11 | diameter 350   | 100.00   | Inch dia     | 33500.00                         | 3350000.00                 |

*Admissions*

TALCHER FERTILIZERS LIMITED

## SCHEDULE OF RATE (SOR)

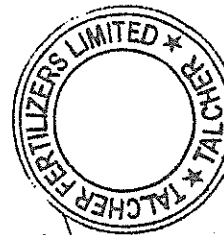
| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS    | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|----------|----------------------------------|----------------------------|
|       |  |          |          | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 36.12 | diameter Up to 150 mm  | 100.00   | Inch dia | 25000.00                         | 2500000.00                 |
| 39.00 | deleted  |          |          |                                  |                            |
| 40.00 | PART B   |          |          |                                  |                            |
| 41.00 | SCHEDULE OF RATES FOR INSTRUMENT SUPPLY & INSTALLATION WORKS   |          |          |                                  |                            |
| 42.00 | Transmitters Supply & Erection   |          |          |                                  |                            |
| 42.10 | Supply of Clamp-on Ultrasonic Flow transmitter and remote display electronic meter including cable (power/signal) at operator room suitable for tender requirement.  | 1.00     | No.      | 213500.00                        | 213500.00                  |
| 42.11 | Erection of Clamp-on Ultrasonic Flow transmitter, this job also includes following<br>1. Calibration of transmitter<br>2. Flow transmitter erection / installation (including drilling of blind flange where ever required, impulse piping including , glanding, and termination, erection of Station & Supports Canopy etc) Supply structural & piping material for this job is in bidders scope , bidder to consider the cost of these items<br>3. Hydrotest, PMI, DP tests of impulse lines (if applicable)<br>4. functional check, loop checking | 1.00     | No.      | 8500.00                          | 8500.00                    |
| 42.12 | Supply of Non Contact type radar level transmitter and remote display electronic meter including cable (power and signal) at operator room suitable for tender requirement.  | 1.00     | Lot      | 175000.00                        | 175000.00                  |
| 42.13 | Erection of Radar level transmitter, this job also includes following.<br>1. Calibration of transmitter<br>2. Level transmitter erection / installation (including drilling of blind flange where ever required, impulse piping including , glanding, and termination, erection of Station & Supports Canopy etc) Supply structural & piping material for this job is in bidders scope , bidder to consider the cost of these items<br>3. Hydrotest, PMI, DP tests of impulse lines (if applicable)<br>4. functional check, loop checking            | 1.00     | No.      | 8500.00                          | 8500.00                    |
| 43.00 | Orifice plate with flanges   |          |          |                                  |                            |
| 43.10 | Supply of Orifice plate with flanges ( 1 pair of gaskets as spare) and its erection.   | 1.00     | No.      | 138500.00                        | 138500.00                  |
| 43.11 | Erection of flow orifice   | 1.00     | No.      | 19500.00                         | 19500.00                   |
| 43.12 | Supply of DP transmitter as per specification attached with this tender  | 1.00     | No.      | 98500.00                         | 98500.00                   |
| 43.13 | Erection of DP transmitter, this job includes following<br>1. Calibration of transmitter<br>2. Pressure transmitter erection / installation (including drilling of blind flange where ever required, impulse piping including , glanding, and termination, erection of Station & Supports Canopy etc) Supply structural & piping material for this job is in bidders scope , bidder to consider the cost of these items<br>3. Hydrotest, PMI, DP tests of impulse lines<br>4. functional check, loop checking  | 1.00     | No.      | 11500.00                         | 11500.00                   |



*Administrative*

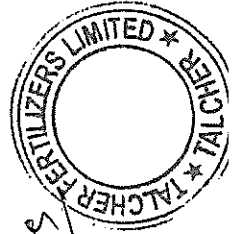
## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 44.00 | Pressure Gauges<br>Supply Of pressure Gauges as per Specification mentioned in ITB<br>( 4 main + 1 spare)   | 5.00     | Nos.  | 8500.00                          | 42500.00                   |
| 44.11 | Pressure gauge erection / installation (includes impulse piping and necessary support fabrication & installation as per the hookup attached in ITB). Supply structural & piping material for this job is in bidders scope , bidder to consider the cost of these items  | 4.00     | Nos.  | 3000.00                          | 12000.00                   |
| 45.00 | Totalizer, Wireless Module, DAS and Modem   |          |       |                                  |                            |
| 45.10 | Supply of wireless module/Data Acquisition system and GSM modem electronics including interconnecting cables at operator room. GSM modem/GPRS router shall be complete with antenna, cable, connectors etc. And suitable for 2G/3G/4G data enable SIM cards of major service providers i.e BSNL, Vodafone, Airtel, JIO etc. | 1.00     | Lot   | 148500.00                        | 148500.00                  |
| 45.11 | Erection, Installation and commissioning of wireless module/DAS and GSM Modem.  | 1.00     | Lot   | 4850.00                          | 4850.00                    |
| 45.12 | Supply of Electronic flow totalizer (Instantaneous flow and totalized flow) with RS-485 cable and connectors.   | 1.00     | No.   | 155000.00                        | 155000.00                  |
| 45.13 | Erection, Installation and commissioning of Flow totalizer including cable for connection of totalizer to Wireless module, DAS, modem.  | 1.00     | No.   | 4950.00                          | 4950.00                    |
| 46.00 | Junction Box  |          |       |                                  |                            |
| 46.10 | Supply Of Junction Boxes(LMB) with cable glands(SS316) and caps(SS) as per Specification mentioned in ITB   | 1.00     | Lot   | 22500.00                         | 22500.00                   |
| 46.11 | Erection/Installation of JB as per specification including glanding termination , ferruling, painting etc.  | 1.00     | Lot   | 3500.00                          | 3500.00                    |
| 47.00 | Instrumentation Cables (Power /signal)  |          |       |                                  |                            |
| 48.00 | Supply of instrumentation cables ( as per specification provided in ITB)  |          |       |                                  |                            |
| 48.10 | 1P x 1.5 Sqmm   | 200.00   | Mtr.  | 85.00                            | 17000.00                   |
| 48.11 | 3C x 2.5 Sqmm   | 200.00   | Mtr.  | 175.00                           | 35000.00                   |
| 48.12 | 6P x 1.5 Sqmm   | 100.00   | Mtr.  | 550.00                           | 55000.00                   |
| 49.00 | Erection of instrumentation cables  |          |       |                                  |                            |
| 49.10 | Erection of instrumentation cables (signal) 1P x 1.5 Sqmm (Laying and termination)  | 200.00   | Mtr.  | 19.00                            | 3800.00                    |
| 49.11 | Erection of instrumentation cables(power) 3C x 2.5 Sqmm (Laying and termination)  | 200.00   | Mtr.  | 21.00                            | 4200.00                    |
| 49.12 | Erection of instrumentation cables (signal) 6P x 1.5 Sqmm (Laying and termination)  | 100.00   | Mtr.  | 28.00                            | 2800.00                    |

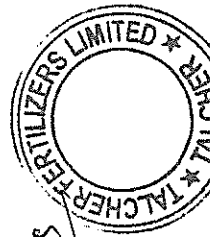


## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 49.13 | Erection of instrumentation cables (signal) 8T x 1.5 Sqmm (Laying and termination)   | 200.00   | Mtr.  | 38.00                            | 7600.00                    |
| 50.00 | Cable Trays  |          |       |                                  |                            |
| 51.00 | Supply of cable trays as per specification in ITB  |          |       |                                  |                            |
| 51.10 | Aluminum Cable Trays (Perforated) Size 2500 x 50 x 55  | 200.00   | Mtr   | 240.00                           | 48000.00                   |
| 52.00 | Erection Of cable trays including supports   |          |       |                                  |                            |
| 52.10 | Aluminum Cable Trays (Perforated) Size 2500 x 50 x 55  | 200.00   | Mtr   | 240.00                           | 48000.00                   |
| 53.00 | PART C   |          |       |                                  |                            |
| 53.10 | SCHEDULE OF RATES FOR ELECTRICAL SUPPLY & INSTALLATION WORKS   |          |       |                                  |                            |
| 53.11 | SUPPLY OF ELECTRICAL ITEMS   |          |       |                                  |                            |
| 53.12 | 33 KV ICOG PANEL   |          |       |                                  |                            |
| 53.13 | Supply of incoming cum outgoing 33kV 3Ph 50Hz 31.5KA 630 A VCB Panel complete with metering and protection system free standing floor mounting cubical type as per SLD & Specification Sheet and Technical specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0) and SLD No. PC:150-7411B-0985A.                                 | 2.00     | Nos.  | 217500.00                        | 435000.00                  |
| 53.14 | TRANSFORMERS   |          |       |                                  |                            |
| 53.15 | Supply of below Transformers with all accessories, as specified in Technical Specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0) and Technical Specification - Transformer (Doc No. PC:150-TS-0807).   |          |       |                                  |                            |
| 53.16 | 5000 KVA, 33/3.45 KV Transformer (ONAN) with OLTC, OLTC Control Panels and RTCC Panels   | 2.00     | Nos.  | 585000.00                        | 1170000.00                 |
| 53.17 | 500 KVA, 3.3/0.433 KV Transformer (ONAN)   | 1.00     | Nos.  | 128500.00                        | 128500.00                  |
| 53.18 | Supply of Nitrogen Injection Fire Prevention & Extinguishing System for 5000 KVA, 33/3.45 KV Transformers complete in all respect.   | 2.00     | Set   | 168700.00                        | 317400.00                  |
| 53.19 | HV & LV SWITCH BOARD   |          |       |                                  |                            |
| 53.20 | Supply of HV Switch Board  |          |       |                                  |                            |
| 53.21 | 3.3 KV, 150MVA, 1600 A switch board with all accessories, as specified in Technical specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0), Technical Specification - High Voltage Switchboard (Doc. No. PC-150-0804) and SLD No. PC:150-7411B-0985B  | 1.00     | No.   | 1165000.00                       | 1165000.00                 |
| 53.22 | Supply of LV Switch Board  |          |       |                                  |                            |
| 53.23 | Extension of existing 415V, 3 Ph & N, 1000 A, 50KA for 1 sec., Single front, Switchboard as specified in Technical specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0) Technical Specification -Medium Voltage Switchboard (Doc. No. PC-150-0803) and SLD No. PC:150-7411B-0985C ; T. No. 1000 A Incomer Feeder Drawout Type   | 1.00     | No.   | 52500.00                         | 52500.00                   |
| 53.24 | Extension of existing 415V, 3 Ph & N, 1000 A, 50KA for 1 sec., Single front, Switchboard as specified in Technical specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0) Technical Specification -Medium Voltage Switchboard (Doc. No. PC-150-0803) and SLD No. PC:150-7411B-0985C ; 18 Nos. 125A,63 A Feeders                   | 1.00     | Set   | 295000.00                        | 295000.00                  |
| 54.00 | NGR  |          |       |                                  |                            |
| 54.10 | Supply of Neutral Grounding Resistors rated for 3.45/√3 KV ± 10%, 400A for 10 seconds & 80A Continuous Rating, 4.98 ohms ± 10%, for 11/3.45 KV, 4 MVA Transformers as specified in Technical specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0) and Technical Specification - NER (Doc. No. PC:150-TS-0802).                  | 2.00     | Nos.  | 598500.00                        | 1197000.00                 |
| 55.00 | INTER LOCKED TYPE SWITCH SOCKET & PLUG   |          |       |                                  |                            |
| 55.10 | Supply of Heavy duty Weather proof interlocking Switch Socket having enclosure with IP-65 degree of protection with matching Plug of following type as specified in Technical specification - Electrical System (Doc No. PC:150/E/11/P-II/SecV-5.0) and Technical Specification - Interlocking Switch Socket and Plug (Doc. No. PC:150-TS-0808). |          |       |                                  |                            |

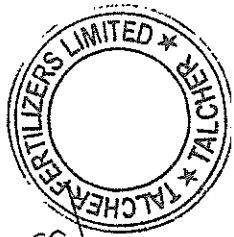


| SCHEDULE OF RATE (SOR) |   |          |       |                                  |                            |
|------------------------|---|----------|-------|----------------------------------|----------------------------|
| Sl.No                  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|                        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 55.11                  | 63A, 5-pin, 415V  | 2.00     | Nos.  | 13650.00                         | 27300.00                   |
| 55.12                  | 25A, 3 pin, 240V  | 6.00     | Nos.  | 1975.00                          | 11850.00                   |
| 56.00                  | HT & LT CABLES  |          |       |                                  |                            |
| 56.10                  | 33 KV (UE) Grade, XLPE Insulated, PVC inner sheathed, Armoured, FRLS PVC outer sheathed cables as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and Technical Specification - Cables (Doc No. PC150-TS-0812).  |          |       |                                  |                            |
| 56.11                  | 3C x 300 sq. mm (Al)  | 120.00   | Mtrs. | 4285.00                          | 514200.00                  |
| 56.12                  | 3.3 KV (UE) Grade, XLPE Insulated, PVC inner sheathed, Armoured, FRLS PVC outer sheathed cables as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and Technical Specification - Cables (Doc No. PC150-TS-0812). |          |       |                                  |                            |
| 56.13                  | 3C x 400 sq. mm (Al)  | 120.00   | Mtrs. | 3350.00                          | 402000.00                  |
| 56.14                  | 3C x 240 sq. mm (Al)  | 620.00   | Mtrs. | 2225.00                          | 1379500.00                 |
| 56.15                  | 1.1 KV Grade, XLPE Insulated, PVC inner Sheath, Armoured, FRLS PVC outer sheathed cables as specified in Technical Specification Doc. No. PC150-TS-0812.  |          |       |                                  |                            |
| 56.16                  | 3.5C x 400 sq. mm (Al)  | 50.00    | Mtrs. | 2650.00                          | 132500.00                  |
| 56.17                  | 3C x 10 sq. mm (Cu)   | 50.00    | Mtrs. | 550.00                           | 27500.00                   |
| 56.18                  | 3C x 6 sq. mm (Cu)  | 360.00   | Mtrs. | 325.00                           | 117000.00                  |
| 56.19                  | 3C x 2.5 sq. mm (Cu)  | 1200.00  | Mtrs. | 175.00                           | 210000.00                  |
| 56.20                  | 3.5C x 50 sq. mm (Al)   | 360.00   | Mtrs. | 425.00                           | 153000.00                  |
| 56.21                  | 3.5C x 35 sq. mm (Al)   | 100.00   | Mtrs. | 295.00                           | 29500.00                   |
| 56.22                  | 4CX4 sq. mm (Al)  | 140.00   | Mtrs. | 125.00                           | 17500.00                   |
| 56.23                  | 4CX16 sq. mm (Al)   | 120.00   | Mtrs. | 225.00                           | 27000.00                   |
| 56.24                  | 5C x 2.5 sq. mm (Cu)  | 50.00    | Mtrs. | 265.00                           | 13250.00                   |
| 56.25                  | 7C x 2.5 sq. mm (Cu)  | 100.00   | Mtrs. | 365.00                           | 36500.00                   |
| 56.26                  | 10C x 2.5 sq. mm (Cu)   | 50.00    | Mtrs. | 525.00                           | 26250.00                   |
| 56.27                  | 12C x 2.5 sq. mm (Cu)   | 150.00   | Mtrs. | 615.00                           | 92250.00                   |
| 56.28                  | 19C x 2.5 sq. mm (Cu)   | 500.00   | Mtrs. | 950.00                           | 475000.00                  |



## SCHEDULE OF RATE (SOR)

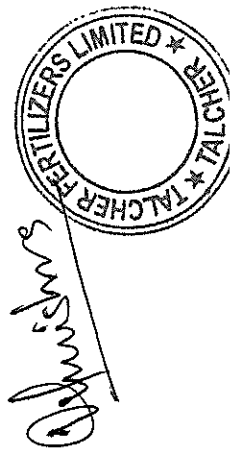
| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 56.28 | B Triad Cable (IS 5631/84), Voltage Grade 1100V, cross section area 1.5 sq mm, conductor/drain material: Electrolytic Annealed Tinned Copper conf. to IS : 813084, Insulation material : XLPE, Sheath material: Extruded HIR PVC Type ST-2 Conf. to IS : 5631/84, Armouring : hot dipped galvanized steel, No. of strands 7 | 500.00   | Mtrs. | 1125.00                          | 562500.00                  |
| 57.00 | CABLE GLANDS  |          |       |                                  |                            |
| 57.10 | Supply of heavy duty Industrial double compression ET Thread rolled Aluminum cable glands suitable for the following sizes of cables as specified in Technical specification - Electrical System (Doc No. PC/150/E/11/P-I/Sec(VI-5.0).  |          |       |                                  |                            |
| 57.11 | 33 KV (UE) Grade, XLPE Insulated, PVC inner sheathed, armoured, FRLS PVC outer sheathed cables.   | 10.00    | Nos.  | 2450.00                          | 24500.00                   |
| 57.12 | 3C x 300 sq. mm (Al)  |          |       |                                  |                            |
| 57.13 | 3.3 KV (UE) Grade, XLPE Insulated, PVC inner sheathed, armoured, FRLS PVC outer sheathed cables.  |          |       |                                  |                            |
| 57.14 | 3C x 400 sq. mm (Al)  | 20.00    | Nos.  | 2150.00                          | 43000.00                   |
| 57.15 | 3C x 240 sq. mm (Al)  | 40.00    | Nos.  | 1750.00                          | 70000.00                   |
| 57.16 | 1C x 185 sq. mm (Al)  | 10.00    | Nos.  | 475.00                           | 4750.00                    |
| 57.17 | 1.1 KV Grade, XLPE Insulated, PVC inner Sheath, armoured, FRLS PVC outer sheathed cables.   |          |       |                                  |                            |
| 57.18 | 3.5C x 400 sq. mm (Al)  | 8.00     | Nos.  | 3350.00                          | 26800.00                   |
| 57.19 | 3C x 10 sq. mm (Cu)   | 6.00     | Nos.  | 285.00                           | 1710.00                    |
| 57.20 | 3C x 6 sq. mm (Cu)  | 28.00    | Nos.  | 295.00                           | 8260.00                    |
| 57.21 | 3C x 2.5 sq. mm (Cu)  | 50.00    | Nos.  | 365.00                           | 18250.00                   |
| 57.22 | 3.5C x 50 sq. mm (Al)   | 14.00    | Nos.  | 585.00                           | 8190.00                    |
| 57.23 | 3.5C x 35 sq. mm (Al)   | 6.00     | Nos.  | 435.00                           | 2610.00                    |
| 57.24 | 4CX 4 sq. mm (Al)   | 10.00    | Nos.  | 285.00                           | 2850.00                    |
| 57.25 | 4CX16 sq. mm (Al)   | 12.00    | Nos.  | 365.00                           | 4380.00                    |





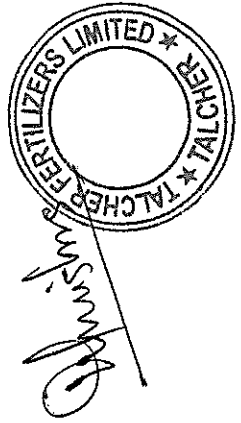
## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 57.26 | 5C x 2.5 sq. mm (Cu)  | 4.00     | Nos.  | 325.00                           | 1300.00                    |
| 57.27 | 7C x 2.5 sq. mm (Cu)  | 20.00    | Nos.  | 355.00                           | 7100.00                    |
| 57.28 | 10C x 2.5 sq. mm (Cu)   | 4.00     | Nos.  | 385.00                           | 1540.00                    |
| 57.29 | 12C x 2.5 sq. mm (Cu)   | 12.00    | Nos.  | 425.00                           | 5100.00                    |
| 57.30 | 19C x 2.5 sq. mm (Cu)   | 20.00    | Nos.  | 550.00                           | 11000.00                   |
| 58.00 | CABLE LUGS  |          |       |                                  |                            |
| 58.10 | Supply of Bi-metallic crimping type lugs of following sizes for termination of cables.  |          |       |                                  |                            |
| 58.11 | 2.5 sq. mm  | 800.00   | Nos.  | 3.00                             | 2400.00                    |
| 58.12 | 4 sq. mm  | 40.00    | Nos.  | 4.00                             | 160.00                     |
| 58.13 | 6 sq. mm  | 84.00    | Nos.  | 6.00                             | 504.00                     |
| 58.14 | 10 sq. mm   | 18.00    | Nos.  | 8.00                             | 144.00                     |
| 58.15 | 16 sq. mm   | 54.00    | Nos.  | 10.00                            | 540.00                     |
| 58.16 | 25 sq. mm   | 14.00    | Nos.  | 12.00                            | 168.00                     |
| 58.17 | 35 sq. mm   | 18.00    | Nos.  | 25.00                            | 450.00                     |
| 58.18 | 50 sq. mm   | 42.00    | Nos.  | 35.00                            | 1470.00                    |
| 58.19 | 185 sq. mm  | 20.00    | Nos.  | 65.00                            | 1300.00                    |
| 58.20 | 240 sq. mm  | 120.00   | Nos.  | 215.00                           | 25800.00                   |
| 58.21 | 300 sq. mm  | 30.00    | Nos.  | 450.00                           | 13500.00                   |
| 58.22 | 400 sq. mm  | 84.00    | Nos.  | 275.00                           | 23100.00                   |
| 59.00 | CABLE TERMINATION   |          |       |                                  |                            |
| 59.10 | Supply of following types of cable termination / jointing kits:   |          |       |                                  |                            |
| 59.11 | Indoor Type / Outdoor Type Heat shrinkable end termination kit of Raychem make suitable for 33/3.3 KV grade XLPE-A-FRLSPVC insulated armoured cables of following sizes |          |       |                                  |                            |
| 59.12 | 33KV (UE), 3C x 300 sq. mm (Al) XLPE armoured cables (Indoor Type)  | 5.00     | Nos.  | 24500.00                         | 122500.00                  |



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 59.13 | 33kV (UE), 3C x 300 sq. mm (Al) XLPE armoured cables (Outdoor Type)   | 5.00     | Nos.  | 38500.00                         | 192500.00                  |
| 59.14 | 3.3 kV (UE), 3 X 400 sq. mm (Al) XLPE armoured cables (Indoor Type)   | 10.00    | Nos.  | 9500.00                          | 95000.00                   |
| 59.15 | 3.3 kV (UE), 3 X 400 sq. mm (Al) XLPE armoured cables (Outdoor Type)  | 10.00    | Nos.  | 12500.00                         | 125000.00                  |
| 59.16 | 3.3 kV (UE), 3 X 240 sq. mm (Al) XLPE armoured cables (Indoor Type)   | 40.00    | Nos.  | 8000.00                          | 320000.00                  |
| 60.00 | JOINTING KITS   |          |       |                                  |                            |
| 60.10 | Supply of following types of jointing kits:   |          |       |                                  |                            |
| 60.11 | Heat Shrinkable Raychem make straight through jointing kit suitable for 3.3 kV grade XLPE-A-FRLSPVC insulated armoured cables of following sizes  |          |       |                                  |                            |
| 60.12 | 3C x 400 sq. mm (Al, 3.3 KV)  | 1.00     | No.   | 18500.00                         | 18500.00                   |
| 60.13 | 3C x 240 sq. mm (Al, 3.3 KV)  | 1.00     | No.   | 18500.00                         | 18500.00                   |
| 61.00 | CABLE RACK (PREFABRICATED LADDER TYPE FRP CABLE TRAYS) & ACCESSORIES  |          |       |                                  |                            |
| 61.10 | Supply of FRP ladder type Cable trays and their accessories i.e. J-hooks, GI Nut, Bolt, Washers, coupling plate etc. of following sizes and as per Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecV-5.0) and drawings enclosed |          |       |                                  |                            |
| 62.00 | Straight Run Cable Trays  |          |       |                                  |                            |
| 62.10 | 600mm wide  | 300.00   | Mtrs. | 1750.00                          | 525000.00                  |
| 62.11 | 300mm wide  | 200.00   | Mtrs. | 975.00                           | 195000.00                  |
| 62.12 | 150mm wide  | 150.00   | Mtrs. | 775.00                           | 116250.00                  |
| 63.00 | Horizontal Bends  |          |       |                                  |                            |
| 63.10 | 600mm wide  | 4.00     | Nos.  | 1925.00                          | 7700.00                    |
| 63.11 | 300 mm wide   | 3.00     | Nos.  | 1350.00                          | 4050.00                    |
| 63.12 | 150mm wide  | 3.00     | Nos.  | 895.00                           | 2685.00                    |
| 64.00 | Vertical Inside Bends   |          |       |                                  |                            |
| 64.10 | 600mm wide  | 4.00     | Nos.  | 1725.00                          | 6900.00                    |
| 64.11 | 300mm wide  | 3.00     | Nos.  | 1350.00                          | 4050.00                    |
| 64.12 | 150mm wide  | 3.00     | Nos.  | 925.00                           | 2775.00                    |
| 65.00 | Vertical Outside Bends  |          |       |                                  |                            |



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | RATE AND AMOUNT IN INDIAN RUPEES |       |            | TOTAL AMOUNT EXCLUDING GST |
|-------|---|----------------------------------|-------|------------|----------------------------|
|       |   | QUANTITY                         | UNITS | UNIT PRICE |                            |
| 65.10 | 600mm wide  | 4.00                             | Nos.  | 1750.00    | 7000.00                    |
| 65.11 | 300mm wide  | 6.00                             | Nos.  | 1350.00    | 8100.00                    |
| 65.12 | 150mm wide  | 3.00                             | Nos.  | 875.00     | 2625.00                    |
| 66.00 | Regular Tees  |                                  |       |            |                            |
| 66.10 | 600mm wide  | 2.00                             | No.   | 1925.00    | 3850.00                    |
| 66.11 | 300mm wide  | 2.00                             | No.   | 1795.00    | 3590.00                    |
| 66.12 | 150mm wide  | 2.00                             | Nos.  | 1195.00    | 2390.00                    |
| 67.00 | Reducers  |                                  |       |            |                            |
| 67.10 | 600/300mm wide  | 2.00                             | Nos.  | 1275.00    | 2550.00                    |
| 67.11 | 300/150mm wide  | 2.00                             | No.   | 1275.00    | 2550.00                    |
| 68.00 | Cross   |                                  |       |            |                            |
| 68.10 | 600mm wide  | 2.00                             | No.   | 1825.00    | 3650.00                    |
| 68.11 | 300mm wide  | 2.00                             | No.   | 1425.00    | 2850.00                    |
| 68.12 | 150mm wide  | 2.00                             | No.   | 1225.00    | 2450.00                    |
| 69.00 | DISTRIBUTION BOARDS   |                                  |       |            |                            |
| 69.10 | Supply of following Distribution Boards as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and Technical Specification - Sheet Steel Distribution Board (Doc. No. PC150-TS-0805).  |                                  |       |            |                            |
| 69.11 | 115 V, 2 Wire, sheet steel enclosed DC Distribution Board (DCDB) . It shall consist of 1 nos. incoming 63 A DP MCCB incomers (with ON & OFF Indication Light) and 16 Nos. 32 A DP MCB as outgoing feeders.  | 1.00                             | No.   | 138500.00  | 138500.00                  |
| 69.12 | Supply of 415 V Lighting sub Distribution Board / Single Phase Socket Distribution Board, as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and Technical Specification - Lighting Sub Distribution Board (Doc. No. PC150-TS-0806).   |                                  |       |            |                            |
| 69.13 | 415 V, 3-way wall/ Steel Structure mounted Sheet steel enclosed Lighting Sub Distribution Board / Power Distribution Board in IP55 degree of protection having 1 No. Incoming (63 A 4 P MCCB) and 3 Nos. feeder circuit of 63A DP RCBO having 9 Nos. outgoing of 16 A DP RCBO (i.e. 3 nos. 16 A DP RCBO per circuit).   | 3.00                             | Nos.  | 66500.00   | 196500.00                  |
| 69.14 | 415 V, 9-way wall/ Steel Structure mounted Sheet steel enclosed Lighting Sub Distribution Board in IP55 degree of protection having 1 No. Incoming (63 A 4 P MCCB) and 3 Nos. feeder circuit of 63A DP RCBO having 9 Nos. outgoing of 16 A DP RCBO (i.e. 3 nos. 16 A DP RCBO per circuit), photocell/limer controlled with Contactor  | 1.00                             | No.   | 78500.00   | 78500.00                   |
| 70.00 | LIGHTING fixtures & accessories   |                                  |       |            |                            |
| 70.10 | Supply of Lighting Fixtures & Accessories   |                                  |       |            |                            |
| 70.11 | 240V AC, 1-Ph, hose and weather proof Lighting fixtures with integral control gear, driver, and lamps suitable for use in safe area having IP-65 degree of protection complete with all accessories and all hardware for fixing the lighting fittings with ceiling / wall / pole/ frame of following types as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0). |                                  |       |            |                            |
| 70.12 | 45 W LED Street Lighting Fixtures.  | 6.00                             | Nos.  | 3850.00    | 23100.00                   |



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 70.13 | 90 W LED Street Lighting Fixtures.  | 6.00     | Nos.  | 5850.00                          | 35100.00                   |
| 70.14 | 240V 1-ph suspension/wall mounted T8 type LED Lighting Fixture with/ without reflector having IP20 Protection   |          |       |                                  |                            |
| 70.15 | 2 x 20 W LED suspension mounted Lighting Fixture with vitreous enameled reflector type fixture.   | 50.00    | Nos.  | 1950.00                          | 97500.00                   |
| 70.16 | 110V DC, hose and weather proof Lighting fixtures suitable for use in safe area complete with all accessories and all hardware for fixing the lighting fittings with ceiling / wall / pole of following types as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0).  |          |       |                                  |                            |
| 70.17 | 100 W GLS Bulk head DC Panic Lighting fixtures  | 10.00    | Nos.  | 550.00                           | 5500.00                    |
| 70.18 | 240V AC, 1-Ph, Flame proof Lighting fixtures with integral control gear box and lamps suitable for use in hazardous area Zone-1 having IP-66 degree of protection complete with all accessories and all hardware for fixing the lighting fittings with structure / surface (including flameproof cable glands), as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0).  |          |       |                                  |                            |
| 70.19 | 1 x 20 W LED tube light fixture   | 3.00     | Nos.  | 4850.00                          | 14550.00                   |
| 71.00 | JUNCTION BOXES  |          |       |                                  |                            |
| 71.10 | Supply of 63A, 415V, 3Ph & N hose proof & weatherproof junction boxes in cast aluminium (LM6) enclosure with IP-65 degree of protection and suitable for 2 Nos. 3.5x 35 Sq. mm (Al) cable & 1 nos. of 3Cx2.5 sq.mm(Cu) cable with terminal blocks of suitable size for easy termination of cables and as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and Technical Specification - Junction Box (Doc. No. PC150-TS-0815).  | 1.00     | No.   | 15500.00                         | 15500.00                   |
| 71.11 | Supply of Junction Boxes in cast aluminium (LM6) enclosure with IP-65 degree of protection and suitable for 3Cx2.5 sq.mm(Cu) cable with cable glands & terminal blocks of suitable size for easy termination of cables and as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and Technical Specification - Junction Box (Doc. No. PC150-TS-0815).   |          |       |                                  |                            |
| 71.12 | 25A, 230V, 1Ph & N 4 Way type hose proof & weatherproof   | 40.00    | Nos.  | 1850.00                          | 74000.00                   |
| 72.00 | PLANT LIGHTING POLES  |          |       |                                  |                            |
| 72.10 | Supply of hot dip galvanized MS tubular swaged lighting poles, junction box, requisite cable glands and lined copper lugs, cable termination, necessary hardware required for excavation, providing concrete foundation (ratio of cement : sand : stone chips = 1:2:4) for ground installation and disposal of surplus earth within 30 m lead, earthing and painting with all labour to make installation complete in all respect as per instruction and directions of engineer-in-charge, of following types suitable for wind velocity of 150 Km/Hr |          |       |                                  |                            |
| 72.11 | 9m. high ground mounted poles (Single Arm)  | 2.00     | Nos.  | 14750.00                         | 29500.00                   |
| 72.12 | 5m. high ground mounted poles (Single Arm)  | 2.00     | Nos.  | 9858.00                          | 19716.00                   |
| 73.00 | EARTHING & LIGHTNING MATERIAL   |          |       |                                  |                            |
| 73.10 | Supply of 3.8M, 100mm dia. heavy G.I. Pipe earth electrode having 100 micron zinc coating for earthing as per Technical specification - Electrical System (Doc No. PC150/E/11/P-II/SecVI-5.0) and PDS:E 605 complete with all accessories like earth bus, GI links for earth Pit connection etc. The hot dip galvanizing (minimum Zinc coating of 610 gms/ sq. M as per IS-2629) shall be done after all fabrication. The electrodes shall be made from one piece length of pipe.   | 20.00    | Nos.  | 11850.00                         | 237000.00                  |
| 73.11 | Supply of G.I. Earth Bus (50mm x 12mm x 390mm), with 10 Nos earthing holes and as per PDS: E 615 enclosed.  | 6.00     | Nos.  | 950.00                           | 5700.00                    |
| 73.12 | Supply of hot dip galvanized (minimum Zinc coating of 610 gms / sq. M as per IS-2629) Earthing strip / earth wire of the following sizes :  |          |       |                                  |                            |
| 73.13 | 75mm X12mm  | 400.00   | Mtrs. | 585.00                           | 234000.00                  |



*Abhishek*

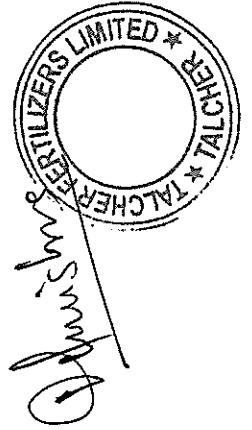
| SCHEDULE OF RATE (SOR) |   |          |       |                                  |                            |
|------------------------|---|----------|-------|----------------------------------|----------------------------|
| Sl.No                  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|                        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 73.14                  | 50mm X 8mm  | 200.00   | Mtrs. | 305.00                           | 61000.00                   |
| 73.15                  | 32mm X 6mm  | 25.00    | Mtr.  | 150.00                           | 3750.00                    |
| 73.16                  | 25mm X 3mm  | 25.00    | Mtr.  | 90.00                            | 2250.00                    |
| 73.17                  | 8 SWG GI wire   | 50.00    | Mtrs. | 55.00                            | 2750.00                    |
| 73.18                  | Earthing Cables   |          |       |                                  |                            |
| 73.19                  | Supply of Single core XLPE Insulated 3.3 KV (E) grade unarmoured FRLS PVC outer sheathed cable for earthing of following sizes  |          |       |                                  |                            |
| 73.20                  | 1C x 185 Sq.mm. (Al)  | 80.00    | Mtrs. | 305.00                           | 24400.00                   |
| 73.21                  | Single core XLPE insulated 1.1 KV grade unarmoured FRLS PVC outer sheathed cable for earthing of following sizes.   |          |       |                                  |                            |
| 73.22                  | 1 x 185 sq. mm (Al)   | 20.00    | Mtrs. | 290.00                           | 5800.00                    |
| 73.23                  | 1 x 16 sq. mm (Al)  | 30.00    | Mtrs. | 45.00                            | 1350.00                    |
| 74.00                  | MS Structure / Aluminium Sheet  |          |       |                                  |                            |
| 74.10                  | Supply of MS structurals in channels, angles, flats, plates, rods etc. conforming to IS: 2026.  | 2.50     | MT    | 106500.00                        | 266250.00                  |
| 74.11                  | Supply of 8 mm thick MS Chequered plates.   | .50      | MT    | 106500.00                        | 53250.00                   |
| 74.12                  | Supply of 2 mm thick Aluminium sheet for fabrication of Rain protective hood  | 3.00     | m2    | 1450.00                          | 4350.00                    |
| 75.00                  | G.I. / HDPE PIPES   |          |       |                                  |                            |
| 75.10                  | Supply of G. I. pipes; Medium Class as per IS 1239 (Part-1) of following sizes :  |          |       |                                  |                            |
| 75.11                  | 50 mm NB  | 20.00    | Mtrs. | 585.00                           | 11700.00                   |
| 75.12                  | 100 mm NB   | 20.00    | Mtrs. | 1250.00                          | 25000.00                   |
| 76.00                  | CAPACTOR BANK   |          |       |                                  |                            |
| 76.10                  | Supply of Capacitor Bank alongwith VCB, RVT, series reactor, Control Panel, APFC Relay, HT vacuum contactor, HT Fuse, Relays etc. complete in all respect as per Technical specification - Electrical System (Doc No. PC150E/11/P-II/SecVI-5.0) and Technical Specification - Capacitor (Doc. No. PC150-TS-0517). |          |       |                                  |                            |

*Adish*

TALCHER FERTILIZERS LIMITED

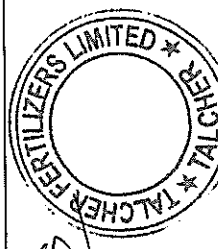
## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 76.11 | 500 KVAR Capacitor bank (2 Steps of 250KVAR each)   | 2.00     | Sets  | 183500.00                        | 367000.00                  |
| 77.00 | DC SYSTEM   |          |       |                                  |                            |
| 77.10 | Supply of medium discharge Nickel Cadmium type, 110 V, 80 AH battery bank with 50 A Battery Charger complete with one no. cell booster as per specification in Technical specification - Electrical System (Doc No. PC150/E/11/P-I/SecV-5.0), Technical Specification - Battery Charger (Doc. No. PC150-TS-0810) and Technical Specification - Battery (Doc. No. PC150-TS-0811). The item includes batteries with all accessories including Battery Stand ; Main Float cum Load cum Boost charger, Standby Float cum Load cum Boost charger, interconnecting Power copper cables between Charger to Batteries and Charger to DCDB, insulated copper links etc.  | 1.00     | Set   | 183500.00                        | 183500.00                  |
| 78.00 | FCMA Starter  |          |       |                                  |                            |
| 78.10 | Supply of 3.3 KV FCMA Starter with Vacuum Contactors, HT Fuses, Metering etc. for 3.3 KV Motors for Water Pumps complete in all respect as per Technical specification - Electrical System (Doc No. PC150/E/11/P-I/SecV-5.0).   | 4.00     | Set   | 95800.00                         | 383200.00                  |
| 79.00 | LOCAL CONTROL STATION (LCS )  |          |       |                                  |                            |
| 79.10 | Supply of Weather Proof Local Control Station of following type, as specified in Technical specification - Electrical System (Doc No. PC150/E/11/P-I/SecV-5.0) and Technical Specification - Local Control Stations. (Doc. No. PC150-TS-0814).  |          |       |                                  |                            |
| 79.11 | LCS with Trip-Neutral-Close control switch, Local-OFF-Remote Selector Switch with Ammeter & 5 nos. indication lamp  | 4.00     | Set   | 16750.00                         | 67000.00                   |
| 80.00 | POINT WIRING  |          |       |                                  |                            |
| 80.10 | THREE Light Point shall controlled by one switch  |          |       |                                  |                            |
| 80.11 | Supply and Providing Point Wiring system for primary light point/ceiling fan point/exhaust fan point/ call bell point/light plug point controlled by 1-6 Amperes modular type switch inclusive of the cost for providing circuit wiring from Distribution board to switch boards with 2x2.5 sq.mm., 1.1 KV grade PVC multi stranded fire resistant insulated copper conductor wire for light in required size of rigid PVC conduit with conduit accessories and 14swg bare copper earth wire continuity conductor including providing/fixing of PVC conduit of required size, Item shall also include wiring from switch board to point/fitting with 2x1.5 sq.mm copper conductor PVC insulated wire of 1100V grade with 14 SWG copper wire as earth continuity conductor for light in appropriate size of PVC conduit including providing & fixing PVC conduit with accessories such as bends,JB,sockets etc.required size of MS zinc passivated modular box with white inner plate and glossy white outer module plate for housing modular switch,sockets,fan regulators (Electronic heavy duty step up type) bell push on modular plate etc,The rates shall include cutting and refilling of chases/wall etc. including internal connections as required. All switch sockets shall be modular type fixed on modular plate. Make of modular plate,board switch, socket etc shall be as per approved Make. (Actual nos. shall be decided at site). | 30.00    | Nos.  | 2250.00                          | 67500.00                   |
| 80.12 | TWO Light Point shall controlled by one switch  |          |       |                                  |                            |
| 80.13 | Supply and Providing Point Wiring system for primary light point/ceiling fan point/exhaust fan point/ call bell point/light plug point controlled by 1-6 Amperes modular type switch inclusive of the cost for providing circuit wiring from Distribution board to switch boards with 2x2.5 sq.mm., 1.1 KV grade PVC multi stranded fire resistant insulated copper conductor wire for light in required size of rigid PVC conduit with conduit accessories and 14swg bare copper earth wire continuity conductor including providing/fixing of PVC conduit of required size, Item shall also include wiring from switch board to point/fitting with 2x1.5 sq mm copper conductor PVC insulated wire of 1100V grade with 14 SWG copper wire as earth continuity conductor for light in appropriate size of PVC conduit including providing & fixing PVC conduit with accessories such as bends,JB,sockets etc.required size of MS zinc passivated modular box with white inner plate and glossy white outer module plate for housing modular switch,sockets,fan regulators (Electronic heavy duty step up type) bell push on modular plate etc,The rates shall include cutting and refilling of chases/wall etc. including internal connections as required. All switch sockets shall be modular type fixed on modular plate. Make of modular plate,board switch, socket etc shall be as per approved Make. (Actual nos. shall be decided at site). | 20.00    | Nos   | 185.00                           | 3700.00                    |
| 80.14 | Power Plug Point  |          |       |                                  |                            |



SCHEDULE OF RATE (SOR)

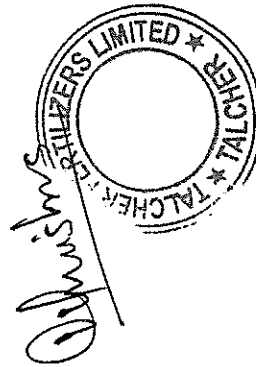
| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 80.15 | Supply and Providing Point Wiring system for 16A 16A power plug point with following sizes PVC insulated unsheathed single core multi stranded copper conductor, fire retardant wires of 1100V grade in recessed PVC conduits of required size complete with accessories such as bends, J-Box, Pull boxes etc with plate switches, sockets, screws and covers, Zinc Passivated MS modular boxes (16 gauge sheet construction) of suitable size, embedded in wall concealed and flush with walls including cutting and refilling the chases/Wall etc, and inclusive of 14SWG bare copper earth conductor for socket outlets as per specifications & direction of Engineer in charge. All modular type switch & socket shall be of approved make 16A, 6 Pin socket outlet with 16A switch mounted side by side with 2x4 sq.mm PVC copper wire with 14 SWG bare copper earth wire as an independent circuit from DB. (Actual nos. shall be decided at site). | 12.00    | Nos   | 2150.00                          | 25800.00                   |
| 80.16 | Exhaust Fans  |          |       |                                  |                            |
| 80.17 | Supply of single phase exhaust fan with guards/ louvers, along with necessary brackets, all required civil works, making good the walls after fixing the fans etc.  |          |       |                                  |                            |
| 80.18 | 450 mm sweep heavy duty exhaust fan with self opening louvers.  | 14.00    | Nos   | 5850.00                          | 81900.00                   |
| 80.19 | Supply of single phase flameproof chemical resistant industrial exhaust fan (suitable for use in hazardous area Zone-1) with guards/ louvers, along with necessary brackets, all required civil works, making good the walls after fixing the fans etc.   |          |       |                                  |                            |
| 80.20 | 300 mm sweep heavy duty exhaust fan.  | 2.00     | Nos   | 11500.00                         | 23000.00                   |
| 80.21 | Supplying of the stainless steel SS-304 air terminalions, base plate & clamping of down Conductor complete with base plate, concrete coping fixing accessories and clamping with down Conductor   | 2.00     | Nos.  | 375.00                           | 750.00                     |
| 81.00 | MISCELLANEOUS ITEMS   |          |       |                                  |                            |
| 81.10 | Supply of Caution boards / dangers boards written in ENGLISH & HINDI of the following voltages as per IS 2551 :   |          |       |                                  |                            |
| 81.11 | 33 KV   | 2.00     | Nos.  | 1050.00                          | 2100.00                    |
| 81.12 | 3.3 KV  | 2.00     | Nos.  | 950.00                           | 1900.00                    |
| 81.13 | 415 Volts   | 5.00     | Nos.  | 850.00                           | 4250.00                    |
| 81.14 | Supply of rubber hand gloves with IS mark suitable for the following voltages as per relevant IS :  |          |       |                                  |                            |
| 81.15 | 33 KV   | 1.00     | Set   | 1150.00                          | 1150.00                    |
| 81.16 | 3.3 KV  | 1.00     | Set   | 950.00                           | 950.00                     |
| 81.17 | 415 Volts   | 1.00     | Set   | 750.00                           | 750.00                     |
| 81.18 | Supply of Shock treatment chart conforming to Indian Electricity Rules in Aluminum frame with glass.  | 5.00     | Nos.  | 1925.00                          | 9625.00                    |
| 81.19 | Supply of Do & Don't chart as per Indian Electricity Rules in Aluminum frame with glass.  | 2.00     | Nos.  | 1465.00                          | 2930.00                    |
| 81.20 | Supply S/S Single Line Diagram in Aluminum frame with glass.  | 1.00     | Nos.  | 4875.00                          | 4875.00                    |
| 81.21 | Supply of portable CO2 type fire extinguisher (4.5 liter capacity).   | 4.00     | Nos.  | 11750.00                         | 47000.00                   |
| 81.22 | Sand buckets with stand (each with at least 3 sand buckets).  | 4.00     | Nos.  | 4350.00                          | 17400.00                   |



*Signature*

## SCHEDULE OF RATE (SOR)

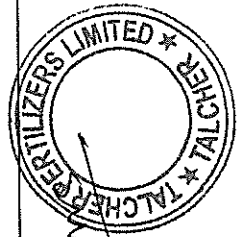
| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS  | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|--------|----------------------------------|----------------------------|
|       |   |          |        | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 81.23 | CPR (CARDIO PULMONARY RESUSCITATION) Charts.  | 2.00     | Nos.   | 950.00                           | 1900.00                    |
| 81.24 | High Voltage danger signage (Skull & bones).  | 10.00    | Nos.   | 950.00                           | 9500.00                    |
| 81.25 | Exit Route / Emergency Exit Route Signage.  | 2.00     | Nos.   | 995.00                           | 1990.00                    |
| 81.26 | First aid boxes.  | 2.00     | Nos.   | 1925.00                          | 3850.00                    |
| 81.27 | Discharge Rod Make (Fluke / Meggar) Discharge Rod Make (Fluke / Meggar)   | 2.00     | Nos.   | 9975.00                          | 19950.00                   |
| 81.28 | LT megger Make (Fluke / Meggar) LT & HT megger Make (Fluke / Meggar)  | 1.00     | No.    | 41500.00                         | 41500.00                   |
| 81.29 | HT megger Make (Fluke / Meggar)   | 1.00     | No.    | 73500.00                         | 73500.00                   |
| 81.30 | Earth megger Make (Fluke / Meggar) Earth megger Make (Fluke / Meggar)   | 2.00     | Nos.   | 14500.00                         | 29000.00                   |
| 81.31 | Multi-meter Make (Fluke / Meggar) Multi-meter Make (Fluke / Meggar)   | 2.00     | Nos.   | 31250.00                         | 62500.00                   |
| 81.32 | Tong Tester Make (Fluke / Meggar) Tong Tester Make (Fluke / Meggar)   | 2.00     | Nos.   | 14950.00                         | 29900.00                   |
| 81.33 | Breaker handling trolley for HT switchboards  | 1.00     | Nos.   | 79250.00                         | 79250.00                   |
| 81.34 | Supply of fire retardant / extinguishing Elect. Insulated Synthetic Mat suitable for all voltages not exceeding 33 KV System (with H.T. Trolley movement) Electrically insulated PVC synthetic sheet along with suitable Resin/ Chemical bound (Hardener)/ Adhesive / Pigment/ PVC Strip etc & having minimum current leakage as per IS with dielectric strength test at 65KV, breakdown strength of 145KV and without adverse effect of mineral oil, high insulation resistance (min. 600 Mega ohm per Km.) including material for water proofing of floor & sealing of all joints having Min. width of 1000 mm ± 20mm. Mats shall conform to BIS: DOCC NO. ET-02 (5440) DI.30/04/04, meet requirements of IS 15652:2006, 5218 (part-1, 2&3), IS 8437, IS 3043 & IEC 479 Rub-1 & tested for Tensile/ Elongation properties, Insulation Resistance, effects of Acid Alkaline Diesel & Transformer Oil, Leakage Current Test, Fire Test etc. |          |        |                                  |                            |
| 81.35 | 33KV Voltage grade having nominal thickness of 3.0 mm ± 10% Class C   | 6.00     | Mtrs.  | 5325.00                          | 31950.00                   |
| 81.36 | Up to 33KV Voltage grade having nominal thickness of 2.0mm ± 10% Class A  | 40.00    | Mtrs.  | 3825.00                          | 153000.00                  |
| 81.37 | Supply of 240V, 1-Ph, 50Hz, 1400mm sweep high speed ceiling fan with electronic regulator.  | 4.00     | No.    | 3015.00                          | 12060.00                   |
| 81.38 | Petroleum Jelly   | 1.00     | Kg     | 515.00                           | 515.00                     |
| 81.39 | Cleaning agent (Carbon tetra chloride (CTC) or equivalent)  | 1.00     | Bottle | 365.00                           | 365.00                     |
| 81.40 | Contact cleaner spray   | 1.00     | Bottle | 425.00                           | 425.00                     |





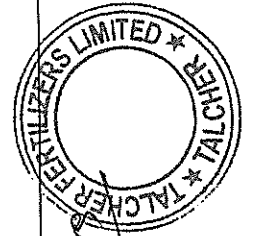
## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 81.41 | Fuse wire   | 1.00     | Set   | 190.00                           | 190.00                     |
| 81.42 | Insulation tape   | 1.00     | No.   | 225.00                           | 225.00                     |
| 81.43 | HT tapes  | 1.00     | No.   | 225.00                           | 225.00                     |
| 81.44 | M-seal  | 1.00     | No.   | 225.00                           | 225.00                     |
| 81.45 | Sealing compound  | 1.00     | No.   | 715.00                           | 715.00                     |
| 81.46 | Silica gel  | 1.00     | Kg    | 665.00                           | 665.00                     |
| 81.47 | cotton tape   | 1.00     | No.   | 305.00                           | 305.00                     |
| 81.48 | Teflon tape   | 1.00     | No.   | 515.00                           | 515.00                     |
| 81.49 | Epoxy compound  | 1.00     | No.   | 735.00                           | 735.00                     |
| 81.50 | Supply of Huma Pipes of following sizes with socket at one end:   |          |       |                                  |                            |
| 81.51 | 200 mm DIA  | 5.00     | Mtrs. | 1465.00                          | 7325.00                    |
| 81.52 | 100 MM DIA  | 5.00     | Mtrs. | 867.00                           | 4335.00                    |
| 81.53 | LOCAL CONTROL STATION ( LCS )   |          |       |                                  |                            |
| 81.54 | Supply of Weather Proof Local Control Station of following type, as specified in Technical Specification  |          |       |                                  |                            |
| 81.55 | Emergency stop push button (Mushroom type) for transformer with lockable facility in OFF position   | 3.00     | Nos.  | 2475.00                          | 7425.00                    |
| 81.56 | Supply of 4 Pole Structure with required bracing, cross arm etc for supporting the pin/strain type insulators, GOD (Double Break, Outdoor, Triple pole, Mechanically Gang operated Isolator cum earthing switch electrically interlock 33KV, 1250 A 31.5KA for 3 sec., 50 Hz + 5%), DO fuses (3Mo) with necessary 33 kV 10KA Station class lightning arresters, CT, PT, Insulators, Jumpers, Guy wires as required, Anti climbing device, Danger board, Outdoor cubical type Metering Panel with Trivector Meter etc. as per CESU requirement, suitable for receiving power from State Electricity Board CESU as per enclosed specifications, codes, standards, SLD, CESU guidelines etc. and complete in all respect.<br>Contractor shall liaison with CESU/State Electricity Board, Statutory Authorities regarding Specification of Metering Panel, CT, PT etc. and shall obtain approval from CESU/State Electricity Board/Statutory Authorities. | 2.00     | Sets  | 950000.00                        | 1900000.00                 |
| 81.57 | Item wise unit prices of following spares for two years operation and maintenance:  |          |       |                                  |                            |
| 82.00 | Batteries and Battery Chargers  |          |       |                                  |                            |



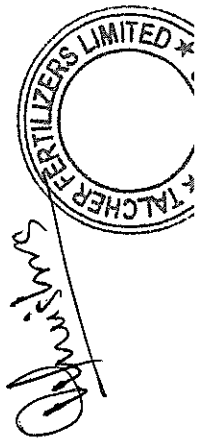
## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 82.10 | Battery Cell of each type  | 2.00     | Nos.  | 11500.00                         | 23000.00                   |
| 82.11 | Insulators Interconnector (each type)  | 1.00     | No.   | 3500.00                          | 3500.00                    |
| 82.12 | Connectors with Nuts & Bolts (each type)   | 1.00     | No.   | 1800.00                          | 1800.00                    |
| 82.13 | Vent Plugs   | 1.00     | No.   | 700.00                           | 700.00                     |
| 82.14 | Transformers   |          |       |                                  |                            |
| 82.15 | Bushings complete with accessories for all 3 phase & neutral for all voltage grades (33/3.45 KV, 5MVA)     | 1.00     | Set   | 115000.00                        | 115000.00                  |
| 82.16 | Bushings complete with accessories for all 3 phase & neutral for all voltage grades (3.3/0.433 KV, 500KVA) | 1.00     | Set   | 85000.00                         | 85000.00                   |
| 82.17 | Complete set of gaskets (33/3.45 KV, 5MVA)   | 1.00     | No.   | 23500.00                         | 23500.00                   |
| 82.18 | Complete set of gaskets (3.3/0.433 KV, 500KVA)   | 1.00     | No.   | 16500.00                         | 16500.00                   |
| 82.19 | Equaliser pipe and Explosion vent diaphragm (33/3.45 KV, 5MVA)   | 1.00     | Set   | 17000.00                         | 17000.00                   |
| 82.20 | PRV with alarm and trip (33/3.45 KV, 5MVA)   | 1.00     | Set   | 11500.00                         | 11500.00                   |
| 82.21 | Oil Level Gauge (33/3.45 KV, 5MVA)   | 1.00     | No.   | 10500.00                         | 10500.00                   |
| 82.22 | Complete charge of Silica gel with breather (33/3.45 KV, 5MVA)   | 1.00     | Set   | 13200.00                         | 13200.00                   |
| 82.23 | Complete charge of Silica gel with breather (3.3/0.433 KV, 500KVA)   | 1.00     | Set   | 9475.00                          | 9475.00                    |
| 82.24 | Gland packing / O-rings for every valve  | 1.00     | Set   | 13450.00                         | 13450.00                   |
| 82.25 | Buchholz Relay   | 1.00     | No.   | 18700.00                         | 18700.00                   |
| 82.26 | Analogue type OTI  | 1.00     | No.   | 25950.00                         | 25950.00                   |
| 82.27 | Analogue type WTI  | 1.00     | No.   | 26400.00                         | 26400.00                   |
| 82.28 | CT for WTI   | 1.00     | No.   | 10850.00                         | 10850.00                   |



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 82.29 | Remote lap position indicator   | 1.00     | No.   | 19837.00                         | 19837.00                   |
| 82.30 | Oil surge relay for OLTC  | 1.00     | No.   | 14678.00                         | 14678.00                   |
| 82.31 | Starter contactors, switches and relays for electrical control panels         | 1.00     | Set   | 9875.00                          | 9875.00                    |
| 83.00 | RTCC Panel  |          |       |                                  |                            |
| 83.10 | Remote lap position indicator   | 1.00     | No.   | 7500.00                          | 7500.00                    |
| 83.11 | Auxiliary Relays  | 1.00     | No.   | 5500.00                          | 5500.00                    |
| 83.12 | MCB of each rating  | 1.00     | No.   | 6150.00                          | 6150.00                    |
| 83.13 | Push Button Actuator of each type   | 1.00     | No.   | 2500.00                          | 2500.00                    |
| 83.14 | Indication Lamp (of each type & colour)                                       | 1.00     | No.   | 2500.00                          | 2500.00                    |
| 83.15 | Alarm bell (Hooter)   | 1.00     | No.   | 1150.00                          | 1150.00                    |
| 83.16 | Alarm buzzer  | 1.00     | No.   | 1050.00                          | 1050.00                    |
| 83.17 | Alarm annunciator (Each Type)   | 1.00     | No.   | 9750.00                          | 9750.00                    |
| 83.18 | Complete Voltage Transformer (1 phase) with terminal connectors(TC).          | 1.00     | No.   | 10450.00                         | 10450.00                   |
| 83.19 | Complete Current Transformer with terminal connectors(TC).                    | 1.00     | No.   | 10450.00                         | 10450.00                   |
| 83.20 | Surge Arrester complete with insulating base with Surge counter & accessories | 1.00     | No.   | 19500.00                         | 19500.00                   |
| 84.00 | 1V Switchboards   |          |       |                                  |                            |
| 84.10 | BREAKER 33 KV OF EACH RATING  |          |       |                                  |                            |
| 84.11 | Trip bar spring and any other spring used in the circuit breaker mechanism    | 1.00     | Set   | 4500.00                          | 4500.00                    |
| 84.12 | Shunt trip coil   | 1.00     | Set   | 3800.00                          | 3800.00                    |
| 84.13 | Closing coil  | 1.00     | Set   | 2750.00                          | 2750.00                    |
| 84.14 | Secondary Isolating contact blocks  | 1.00     | Set   | 2345.00                          | 2345.00                    |



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)  | RATE AND AMOUNT IN INDIAN RUPEES |       |            |                            |
|-------|--|----------------------------------|-------|------------|----------------------------|
|       |  | QUANTITY                         | UNITS | UNIT PRICE | TOTAL AMOUNT EXCLUDING GST |
| 84.15 | Micro Switch for Spring Charging   | 1.00                             | Set   | 1986.00    | 1986.00                    |
| 84.16 | Micro Switch for Service/Test position                                     | 1.00                             | Set   | 1950.00    | 1950.00                    |
| 84.17 | Rack in/Rack out handle  | 1.00                             | No.   | 1675.00    | 1675.00                    |
| 84.18 | Spring Charging handle   | 1.00                             | No.   | 1285.00    | 1285.00                    |
| 84.19 | Door panel key   | 1.00                             | Set   | 475.00     | 475.00                     |
| 84.20 | BREAKER 3.3 KV OF EACH RATING  |                                  |       |            |                            |
| 84.21 | Trip bar spring and any other spring used in the circuit breaker mechanism | 1.00                             | Set   | 4650.00    | 4650.00                    |
| 84.22 | Shunt trip coil  | 1.00                             | Set   | 3680.00    | 3680.00                    |
| 84.23 | Closing coil   | 1.00                             | Set   | 2430.00    | 2430.00                    |
| 84.24 | Secondary Isolating contact blocks   | 1.00                             | Set   | 2145.00    | 2145.00                    |
| 84.25 | Micro Switch for Spring Charging   | 1.00                             | Set   | 1860.00    | 1860.00                    |
| 84.26 | Micro Switch for Service/Test position                                     | 1.00                             | Set   | 2340.00    | 2340.00                    |
| 84.27 | Rack in/Rack out handle  | 1.00                             | No.   | 1860.00    | 1860.00                    |
| 84.28 | Spring Charging handle   | 1.00                             | No.   | 1430.00    | 1430.00                    |
| 84.29 | Door panel key   | 1.00                             | Set   | 680.00     | 680.00                     |
| 84.30 | CONTROL SWITCHES   |                                  |       |            |                            |
| 84.31 | Trip-Neutral-Close Control Switch  | 2.00                             | No.   | 1450.00    | 2920.00                    |
| 84.32 | Local-Remote or Auto-Manual Selector Switch                                | 2.00                             | No.   | 1350.00    | 2700.00                    |
| 84.33 | Thermostat   | 2.00                             | No.   | 2580.00    | 5160.00                    |

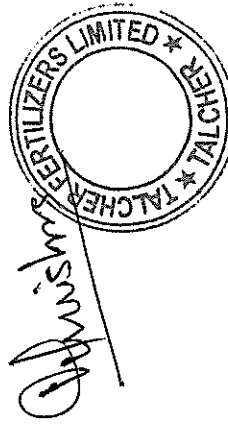


| SCHEDULE OF RATE (SOR) |  |          |       |                                  |                            |  |
|------------------------|--|----------|-------|----------------------------------|----------------------------|--|
| Sl.No                  | Description of Work / Item(s)              | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |  |
|                        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |  |
| 84.34                  | Ammeter Selector Switch                    | 2.00     | No.   | 660.00                           | 1320.00                    |  |
| 84.35                  | Voltmeter Selector Switch                  | 2.00     | No.   | 660.00                           | 1320.00                    |  |
| 84.36                  | Push Button Element of each type           | 4.00     | Sets  | 820.00                           | 3280.00                    |  |
| 84.37                  | Push Button Actuator of each type          | 4.00     | Sets  | 615.00                           | 2460.00                    |  |
| 84.38                  | Indication Lamps (1 no. of each type)      | 4.00     | Nos.  | 625.00                           | 2500.00                    |  |
| 84.39                  | MINIATURE CIRCUIT BREAKER (OF EACH RATING) | 2.00     | Sets  | 5915.00                          | 11830.00                   |  |
| 84.40                  | METERS                                     |          |       |                                  |                            |  |
| 84.41                  | Ammeter of each type                       | 2.00     | Sets  | 3070.00                          | 6140.00                    |  |
| 84.42                  | Voltmeter                                  | 1.00     | No.   | 610.00                           | 610.00                     |  |
| 84.43                  | FUSES (OF EACH RATING)                     |          |       |                                  |                            |  |
| 84.44                  | Fuse link                                  | 2.00     | No.   | 865.00                           | 1730.00                    |  |
| 84.45                  | Fuse fittings                              | 2.00     | No.   | 865.00                           | 1730.00                    |  |
| 84.46                  | MISCELLANEOUS                              |          |       |                                  |                            |  |
| 84.47                  | Alarm bell                                 | 2.00     | No.   | 1315.00                          | 2630.00                    |  |
| 84.48                  | Alarm buzzer                               | 2.00     | No.   | 1315.00                          | 2630.00                    |  |
| 84.49                  | Surge Suppressor                           | 3.00     | Nos.  | 7180.00                          | 21540.00                   |  |
| 84.50                  | Vacuum Bottle (3.3KV, 1600A)               | 3.00     | Nos.  | 38750.00                         | 116250.00                  |  |
| 85.00                  | LV Switchboards                            |          |       |                                  |                            |  |
| 85.10                  | METERS                                     |          |       |                                  |                            |  |
| 85.11                  | Ammeter of each type                       | 1.00     | No.   | 3325.00                          | 3325.00                    |  |
| 85.12                  | CONTROL SWITCHES                           |          |       |                                  |                            |  |



## SCHEDULE OF RATE (SOR)

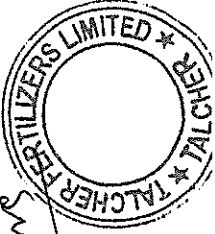
| Sl.No | Description of Work / Item(s)                | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 85.13 | Ammeter Selector Switch                      | 2.00     | No.   | 660.00                           | 1320.00                    |
| 85.14 | MCCB   |          |       |                                  |                            |
| 85.15 | MCCB 63 A                                    | 1.00     | No.   | 6030.00                          | 6030.00                    |
| 85.16 | MCCB 125 A                                   | 1.00     | No.   | 10830.00                         | 10830.00                   |
| 86.00 | NEUTRAL EARTHING RESISTOR                    |          |       |                                  |                            |
| 86.10 | Bushing with accessories                     | 2.00     | Set   | 2130.00                          | 4260.00                    |
| 86.11 | Support insulators                           | 2.00     | Set   | 1270.00                          | 2540.00                    |
| 86.12 | Resistor element                             | 2.00     | Set   | 585.00                           | 1170.00                    |
| 87.00 | FOR LIGHTING FIXTURE                         |          |       |                                  |                            |
| 87.10 | Reflector of each type                       | 2.00     | Nos.  | 1030.00                          | 2060.00                    |
| 87.11 | Lamp holder of each type.                    | 2.00     | Nos.  | 1030.00                          | 2060.00                    |
| 87.12 | Allen keys of different sizes as applicable. | 2.00     | Nos.  | 1030.00                          | 2060.00                    |
| 88.00 | FOR INTERLOCKING SWITCH SOCKET & PLUG        |          |       |                                  |                            |
| 88.10 | Switch of each rating                        | 1.00     | Nos.  | 3280.00                          | 3280.00                    |
| 88.11 | Fuse base of each rating                     | 1.00     | Nos.  | 915.00                           | 915.00                     |
| 88.12 | Fuse of each rating                          | 1.00     | Nos.  | 715.00                           | 715.00                     |
| 88.13 | Plug Top                                     | 1.00     | Nos.  | 635.00                           | 635.00                     |
| 89.00 | ASDB/LSDB                                    |          |       |                                  |                            |
| 89.10 | 16 A DP MCB                                  | 2.00     | Nos.  | 360.00                           | 720.00                     |
| 89.11 | Terminal block.                              | 2.00     | Nos.  | 280.00                           | 560.00                     |
| 90.00 | Capacitor                                    |          |       |                                  |                            |
| 90.10 | Supporting insulators                        | 1.00     | Set   | 6810.00                          | 6810.00                    |



## SCHEDULE OF RATE (SOR)

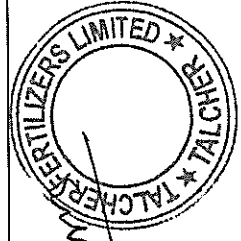
| Sl.No | Description of Work / Item(s)                      | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|--|----------|-------|----------------------------------|----------------------------|
|       |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 90.11 | Gaskets  | 1.00     | Set   | 8790.00                          | 8790.00                    |
| 91.00 | Motor (For each rating)                            |          |       |                                  |                            |
| 91.10 | Bearings (Driving end)                             | 1.00     | No.   | 58500.00                         | 58500.00                   |
| 91.11 | Bearings (Non driving end)                         | 1.00     | No.   | 58500.00                         | 58500.00                   |
| 91.12 | Cooling fan  | 1.00     | No.   | 11750.00                         | 11750.00                   |
| 91.13 | Terminal block                                     | 1.00     | No.   | 2830.00                          | 2830.00                    |
| 91.14 | Grease Nipple & Plug (if applicable)               | 1.00     | No.   | 4830.00                          | 4830.00                    |
| 91.15 | Space Heater                                       | 1.00     | No.   | 275.00                           | 275.00                     |
| 91.16 | Inner & Outer Cover fro DE & NDE bearings          | 1.00     | Set   | 9760.00                          | 9760.00                    |
| 92.00 | FOR LCS  |          |       |                                  |                            |
| 92.10 | Ammeters   | 1.00     | No.   | 1125.00                          | 1125.00                    |
| 92.11 | T-N-C Control switch                               | 1.00     | No.   | 1830.00                          | 1830.00                    |
| 92.12 | Indication Light of each colour                    | 1.00     | Set   | 815.00                           | 815.00                     |
| 92.13 | Terminal blocks                                    | 1.00     | No.   | 615.00                           | 615.00                     |
| 92.14 | NIPFS  |          |       |                                  |                            |
| 92.15 | Fitted nitrogen cylinder (68 liter water Capacity) | 1.00     | No.   | 18930.00                         | 18930.00                   |
| 92.16 | Heat sensor assembly                               | 1.00     | No.   | 640.00                           | 640.00                     |
| 92.17 | Fire survival cable sufficient for one system      | 1.00     | Set   | 9810.00                          | 9810.00                    |
| 92.18 | PNRBV  | 1.00     | No.   | 8810.00                          | 8810.00                    |

*Adishwar*



## SCHEDULE OF RATE (SOR)

| Sl.No | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|-------|---|----------|-------|----------------------------------|----------------------------|
|       |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 92.19 | Limit switch for fire detector  | 1.00     | No.   | 4750.00                          | 4750.00                    |
| 92.20 | Fire detectors  | 2.00     | No.   | 3250.00                          | 6520.00                    |
| 92.21 | Heating element   | 2.00     | No.   | 3930.00                          | 7860.00                    |
| 92.22 | UPS   |          |       |                                  |                            |
| 92.23 | MCB, MCCB and control switches of each rating   | 1.00     | Set   | 5910.00                          | 5910.00                    |
| 92.24 | Control Cards   | 1.00     | Set   | 9915.00                          | 9915.00                    |
| 92.25 | Semiconductor fuses & HRC fuse links of each type   | 1.00     | Set   | 5230.00                          | 5230.00                    |
| 92.26 | Isolator switch of each type  | 1.00     | Set   | 6140.00                          | 6140.00                    |
| 92.27 | PCBs of each type   | 1.00     | Set   | 10340.00                         | 10340.00                   |
| 93.00 | CABLE TRENCH MATERIAL & ACCESSORIES   |          |       |                                  |                            |
| 93.10 | Supply of fine river sand in the trench around cables up to a depth of 250 mm (100 mm below the centre line of cable and 150 mm above cable the centre line of cable)   | 10.00    | M3    | 2240.00                          | 22400.00                   |
| 93.11 | Supply of Class B 8" x 4.5" x 3" bricks for cable trenches  | 3500.00  | Nos.  | 15.00                            | 52500.00                   |
| 94.00 | CABLE ROUTE MARKER  |          |       |                                  |                            |
| 94.10 | Supply of Cable route markers of Round shape made of MS of dia 200mm with suitable engraving as of HT/ LT/ Control/ Data Cable jointed with angle of 30X30X5 mm grouted in concrete of size 150mm x150mm x 500mm.   | 3.00     | Nos.  | 1385.00                          | 4155.00                    |
| 94.11 | Supply of 230 V AC, 2 KVA Parallel Redundant UPS System with UPS Distribution Board (with 2 Nos. Incomers with MCCB, Ammeter, Voltmeter, Frequency meter, Indication Lights with Static Switch) and 10 Nos. Outgoing Feeders (with DP MCB) to feed power supply to the instrumentation system etc. This UPS System shall be complete with 2 x 100% Ni-Cd Battery with backup of 5 hours and other accessories.  | 1.00     | Set   | 88975.00                         | 88975.00                   |
| 94.12 | Supply of hose proof & weatherproof, Wall/ Structure mounted 24 V DC Power Supply Unit of 100 VA Rating (IP-65 degree of protection) with inbuilt choppers and other accessories suitable for Single 110 V DC Input and Single 24 V DC Output of reputed make.  | 4.00     | Set   | 19735.00                         | 78940.00                   |
| 94.13 | Supply of SCR based Soft Starter for 3.3 kV Motors for Raw Water Pumps<br>Each Soft Starter shall be suitable for Starting of 1 Nos. Motors. with Bypass Facility from Motor Feeders of 3.3 kV Switchboard.   | 4.00     | Sets  | 85750.00                         | 343000.00                  |
| 95.00 | deleted   |          |       |                                  |                            |
| 96.00 | ERECTION/ INSTALLATION OF ELECTRICAL ITEMS  |          |       |                                  |                            |
| 97.00 | TRANSFORMER   |          |       |                                  |                            |
| 97.10 | Installation, Testing and Commissioning of Transformers excluding filtration and dehydration of oil / winding, Power and Control cable termination but including transportation of transformer and its accessories from stores, dressing of foundation, placing in position on M/S base channel / flat, assembly of all accessories supplied loose, topping up with tested oil, all labour and material complete as per drawings / specification and direction of the transformer manufacturer. |          |       |                                  |                            |
| 97.11 | 5000 KVA, 33/3.45 kV Transformer (ONAN) with OLTC, OLTC Control Panels and RTCC Panels  | 2.00     | Nos.  | 98350.00                         | 196700.00                  |





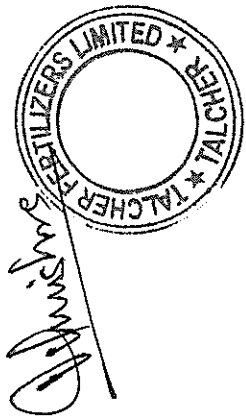
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|---|----------|-------|----------------------------------|----------------------------|
|        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 97.12  | 500 KVA, 3.3/0.433 kV Transformer (ONAN)  | 1.00     | Nos.  | 13780.00                         | 13780.00                   |
| 97.13  | Filtration and Dehydration of oil / winding of transformer with streamline filter machine (to be arranged by the Contractor) for bringing the dielectric strength of the oil to the required level as per IS, complete with all labour and material including transportation of drums from stores.  | 6000.00  | Liter | 18.00                            | 108000.00                  |
| 97.20  | Installation, Testing and Commissioning of Nitrogen Injection Fire Prevention & Extinguishing System for Transformer for 5000 KVA, 33/3.45 kV Transformers complete in all respect.   | 2.00     | Set   | 64430.00                         | 128860.00                  |
| 98.00  | HV & LV SWITCH BOARD  |          |       |                                  |                            |
| 98.10  | Installation, testing and commissioning of following sheet enclosed switch boards, free standing, floor mounting, cubicle type, including transportation from the site of erection, assembly, mounting, fixing and wiring of loose components like relays/meters, interconnection of shipping sections and inter panel wiring as necessary, inter bus bar jointing and earthing, operational and functional checking, installation on foundation including leveling and aligning, supply of foundation nuts and bolts, drilling of gland plates with requisite holes, fixing of cable glands supplied loose, plugging of all unused cable entries and other holes found in switch boards for making the same dust and vermin proof with all labour and materials to make the installation complete as per approved drawings, technical specifications and direction of engineer-in-charge, but excluding termination of incoming & outgoing cables. Job shall include rigidly fixing the frame including grouting, if necessary |          |       |                                  |                            |
| 99.00  | HV SWITCH BOARD   |          |       |                                  |                            |
| 99.10  | 33KV 3Ph 50Hz 31.5kA 630 A VCB ICOG Panel   | 2.00     | Nos.  | 49240.00                         | 98480.00                   |
| 99.11  | 3.3 KV, 150 MVA, 1600 A switch board  | 1.00     | No.   | 138740.00                        | 138740.00                  |
| 100.00 | LV SWITCH BOARD   |          |       |                                  |                            |
| 100.10 | Extension of Existing 415 V, 36 MVA, 1000 A Switchboard : 1 No. 1000 A Incoming Feeder Drawout Type   | 1.00     | No.   | 12260.00                         | 12260.00                   |
| 100.11 | Extension of Existing 415 V, 36 MVA, 1000 A Switchboard : 18 Nos. 125A/63A Outgoing Feeders   | 1.00     | Set   | 9880.00                          | 9880.00                    |
| 101.00 | NGR   |          |       |                                  |                            |
| 101.10 | Installation of sheet steel enclosed, free standing, floor mounting, cubicle type, including transportation from the store to the site of erection, assembly, mounting, earthing, installation on foundation including leveling and aligning, supply of foundation nuts and bolts, drilling of gland plates with requisite holes, fixing of cable glands supplied loose, plugging of all unused cable entries for making the same dust and vermin proof with all labour and materials to make the installation complete as per approved drawings, technical specifications and direction of engineer-in-charge, but excluding termination of cables. Job shall include rigidly fixing the frame including grouting, if necessary.   |          |       |                                  |                            |
| 101.11 | Neutral Grounding Resistors rated for 3.45/43 KV $\pm$ 10%, 400A for 10 seconds & 80A Continuous Rating , 4.98 ohms $\pm$ 10%, for 33/3.45 KV, 5 MVA Transformers.  | 2.00     | No.   | 13680.00                         | 27360.00                   |
| 102.00 | WEATHER PROOF / HOSE PROOF SWITCH SOCKET  |          |       |                                  |                            |
| 102.10 | Installation, testing and commissioning of interlocked type switch sockets with matching plugs complete with cable glands, lugs, terminal blocks etc. of following ratings:   |          |       |                                  |                            |
| 102.11 | 63A, 5-pin, 415V (Weather Proof)  | 2.00     | Nos.  | 825.00                           | 1650.00                    |
| 102.12 | 25A, 3-pin, 240V (Weather Proof)  | 6.00     | Nos.  | 725.00                           | 4350.00                    |
| 103.00 | LAYING OF CABLE TRAYS   |          |       |                                  |                            |
| 103.10 | Installation, laying and connecting of FRP ladder type cable trays and horizontal & vertical bends and regular Tees of different radii of various sizes on already erected supports or risers, including joining various cable trays by bolting with G.I. bolts, nuts & washers as per approved drawings (including fixing J-hooks, reducer coupler plate) as per the desired cable route and as per the drawings and directions of Engineer-in-charge. Job also includes supply of all hardware required i.e. J-hooks, GI Nut, Bolt, Washers etc.  |          |       |                                  |                            |
| 104.00 | Straight Run Cable Trays  |          |       |                                  |                            |



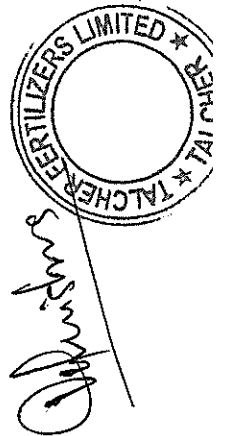
*Advisors*

| SCHEDULE OF RATE (SOR) |                               |          |       |                                  |                            |  |
|------------------------|-------------------------------|----------|-------|----------------------------------|----------------------------|--|
| Sl.No                  | Description of Work / Item(s) | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |  |
|                        |                               |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |  |
| 104.10                 | 600mm wide                    | 300.00   | Mtrs. | 505.00                           | 151500.00                  |  |
| 104.11                 | 300mm wide                    | 200.00   | Mtrs. | 265.00                           | 53000.00                   |  |
| 104.12                 | 150mm wide                    | 150.00   | Mtrs. | 12.00                            | 1800.00                    |  |
| 105.00                 | Horizontal Bends              |          |       |                                  |                            |  |
| 105.10                 | 600mm wide                    | 4.00     | Nos.  | 535.00                           | 2140.00                    |  |
| 105.11                 | 300 mm wide                   | 3.00     | Nos.  | 415.00                           | 1245.00                    |  |
| 105.12                 | 150mm wide                    | 3.00     | Nos.  | 280.00                           | 840.00                     |  |
| 106.00                 | Vertical Inside Bends         |          |       |                                  |                            |  |
| 106.10                 | 600mm wide                    | 4.00     | Nos.  | 540.00                           | 2160.00                    |  |
| 106.11                 | 300mm wide                    | 3.00     | Nos.  | 405.00                           | 1215.00                    |  |
| 106.12                 | 150mm wide                    | 3.00     | Nos.  | 285.00                           | 855.00                     |  |
| 107.00                 | Vertical Outside Bends        |          |       |                                  |                            |  |
| 107.10                 | 600mm wide                    | 4.00     | Nos.  | 515.00                           | 2060.00                    |  |
| 107.11                 | 300mm wide                    | 6.00     | Nos.  | 405.00                           | 2430.00                    |  |
| 107.12                 | 150mm wide                    | 3.00     | Nos.  | 270.00                           | 810.00                     |  |
| 107.13                 | Regular Tees                  |          |       |                                  |                            |  |
| 107.14                 | 600mm wide                    | 2.00     | No.   | 520.00                           | 1040.00                    |  |
| 107.15                 | 300mm wide                    | 2.00     | No.   | 295.00                           | 590.00                     |  |
| 107.16                 | 150mm wide                    | 2.00     | Nos.  | 260.00                           | 520.00                     |  |
| 108.00                 | Reducers                      |          |       |                                  |                            |  |
| 108.10                 | 600/300mm wide                | 2.00     | Nos.  | 410.00                           | 820.00                     |  |



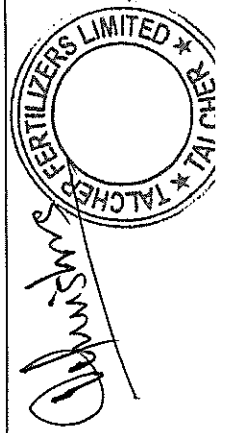
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 108.11 | 300/150mm wide   | 2.00     | No.   | 383.00                           | 766.00                     |
| 109.00 | Cross  |          |       |                                  |                            |
| 109.10 | 600mm wide   | 2.00     | No.   | 394.00                           | 788.00                     |
| 109.11 | 300mm wide   | 2.00     | No.   | 359.00                           | 718.00                     |
| 109.12 | 150mm wide   | 2.00     | No.   | 109.00                           | 218.00                     |
| 110.00 | LAYING OF CABLES   |          |       |                                  |                            |
| 110.10 | Horizontal and vertical laying (before and after laying) and commissioning of following HV (33KV & 3.3KV) / LV Power & Control cables in ready-made trenches, on FRP cable trays / racks, on already installed risers, support hangers, saddles etc. pulling through pipes on walls / columns, steel structures including transportation of cable drums from storage yard to the site, unrolling the drum, laying the required length of cables including supply and fixing of necessary saddles, saddle bars, cable tags, Al clamps for cables laid vertical on walls / columns / structures, risers with all labour, consumable materials and necessary hardware to make installation complete in all respect as per approved standard drawings and direction of engineer-in-charge. |          |       |                                  |                            |
| 110.11 | 33 KV (E) Grade, XLPE Insulated, PVC inner sheathed, Armoured, FRLS PVC outer sheathed cables along with 36" water pipe ltra.  |          |       |                                  |                            |
| 110.12 | 3C x 300 sq. mm (Al)   | 120.00   | Mtrs. | 278.00                           | 33360.00                   |
| 110.13 | 3.3 KV (E) Grade, XLPE Insulated, PVC inner sheathed, FRLS PVC outer sheathed cables.  |          |       |                                  |                            |
| 110.14 | 3C x 400 sq. mm (Al)   | 120.00   | Mtrs. | 266.00                           | 30960.00                   |
| 110.15 | 3C x 240 sq. mm (Al)   | 620.00   | Mtrs. | 185.00                           | 114700.00                  |
| 110.16 | 1.1 KV Grade, XLPE Insulated, PVC inner Sheath, FRLS PVC outer sheathed cables.  |          |       |                                  |                            |
| 110.17 | 3.5C x 400 sq. mm (Al)   | 50.00    | Mtrs. | 280.00                           | 14000.00                   |
| 110.18 | 3C x 10 sq. mm (Cu)  | 50.00    | Mtrs. | 64.00                            | 3200.00                    |
| 110.19 | 3C x 6 sq. mm (Cu)   | 360.00   | Mtrs. | 54.00                            | 19440.00                   |
| 110.20 | 3C x 2.5 sq. mm (Cu)   | 1200.00  | Mtrs. | 26.00                            | 31200.00                   |
| 110.21 | 3.5C x 50 sq. mm (Al)  | 360.00   | Mtrs. | 107.00                           | 38520.00                   |
| 110.22 | 3.5C x 35 sq. mm (Al)  | 100.00   | Mtrs. | 94.00                            | 9400.00                    |



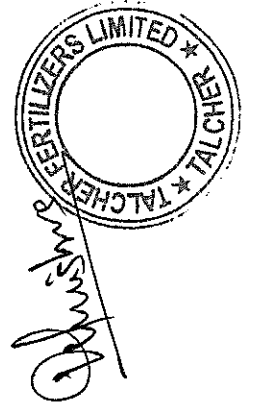
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 110.23 | 4CX4 sq. mm (Al)   | 140.00   | Mtrs. | 48.00                            | 6720.00                    |
| 110.24 | 4CX16 sq. mm (Al)  | 120.00   | Mtrs. | 57.00                            | 6840.00                    |
| 110.25 | 5C x 2.5 sq. mm (Cu)   | 50.00    | Mtrs. | 47.00                            | 2350.00                    |
| 110.26 | 7C x 2.5 sq. mm (Cu)   | 100.00   | Mtrs. | 47.00                            | 4700.00                    |
| 110.27 | 10C x 2.5 sq. mm (Cu)  | 50.00    | Mtrs. | 56.00                            | 2800.00                    |
| 110.28 | 12C x 2.5 sq. mm (Cu)  | 150.00   | Mtrs. | 56.00                            | 8400.00                    |
| 110.29 | 19C x 2.5 sq. mm (Cu)  | 500.00   | Mtrs. | 64.00                            | 32000.00                   |
| 110.30 | Single core XLPE insulated 3.3 KV grade unarmoured FRLS PVC outer sheathed cable for earthing  |          |       |                                  |                            |
| 110.31 | 1C x 185 Sq. mm. (Al)  | 80.00    | Mtrs. | 88.00                            | 7040.00                    |
| 110.32 | Single core XLPE insulated 1.1 KV grade unarmoured FRLS PVC outer sheathed cable for earthing.   |          |       |                                  |                            |
| 110.33 | 1 x 185 sq. mm (Al)  | 20.00    | Mtrs. | 93.00                            | 1860.00                    |
| 110.34 | 1 x 16 sq. mm (Al)   | 30.00    | Mtrs. | 38.00                            | 1140.00                    |
| 110.35 | 8 Triad Cable (IS 5831/84), Voltage Grade 1100V , cross section area 1.5 sq. mm, conductor/drain material: Electrolytic Annealed Tinned Copper conf. to IS : 813084, Insulation material : XLPE, Sheath material: Extruded HR PVC Type ST-2 Conf. to IS : 5831/84, Armouring : hot dipped galvanized steel, No. of strands 7.  | 500.00   | Mtrs. | 69.00                            | 34500.00                   |
| 111.00 | Termination of cables  |          |       |                                  |                            |
| 111.10 | End termination and subsequent testing of XLPE/PVC insulated single core / multi core armoured Cables of 33KV/3.3KV/1.1 KV grade, Al/Cu cable using suitable Heat Shrink Termination Kit, excluding supply of glands & lugs but including Glanding, all labour and consumable materials to make installation complete in all respect. The rate shall include drilling, tapping of cable insulation, clamping of lugs to the conductor, connection of the lugs to equipment terminal, supply and fixing of G.I. nuts, screws, bolts, washers and other necessary hardware, PVC tape of required grade for taping, making cable entries dust and vermin proof, earthing etc. as per instruction of manufacturer, approved drawings, specifications and directions of engineer-in-charge. |          |       |                                  |                            |
| 111.11 | 33KV (UE), 3C x 300 sq. mm (Al) XLPE armoured cables   | 10.00    | Nos.  | 7150.00                          | 71500.00                   |
| 111.12 | 3.3 KV (UE), 3 X 400 sq. mm (Al) XLPE armoured cables  | 20.00    | Nos.  | 4975.00                          | 99500.00                   |
| 111.13 | 3.3 KV (UE), 3 X 240 sq. mm (Al) XLPE armoured cables  | 48.00    | Nos.  | 4825.00                          | 231600.00                  |
| 111.14 | 1.1 KV Grade, XLPE insulated, PVC inner-Sheath, FRLS PVC outer sheathed cables.  |          |       |                                  |                            |
| 111.15 | 3.5C x 400 sq. mm (Al)   | 8.00     | Nos.  | 875.00                           | 7000.00                    |



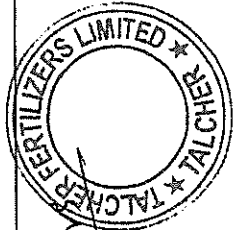
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|---|----------|-------|----------------------------------|----------------------------|
|        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 111.16 | 3C x 10 sq. mm (Cu)   | 6.00     | Nos.  | 135.00                           | 810.00                     |
| 111.17 | 3C x 6 sq. mm (Cu)  | 28.00    | Nos.  | 88.00                            | 2464.00                    |
| 111.18 | 3C x 2.5 sq. mm (Cu)  | 50.00    | Nos.  | 55.00                            | 2750.00                    |
| 111.19 | 3.5C x 50 sq. mm (Al)   | 14.00    | Nos.  | 165.00                           | 2310.00                    |
| 111.20 | 3.5C x 35 sq. mm (Al)   | 6.00     | Nos.  | 125.00                           | 750.00                     |
| 111.21 | 4CX4 sq. mm (Al)  | 10.00    | Nos.  | 145.00                           | 1450.00                    |
| 111.22 | 4CX16 sq. mm (Al)   | 12.00    | Nos.  | 135.00                           | 1620.00                    |
| 111.23 | 5C x 2.5 sq. mm (Cu)  | 4.00     | Nos.  | 65.00                            | 260.00                     |
| 111.24 | 7C x 2.5 sq. mm (Cu)  | 20.00    | Nos.  | 96.00                            | 1920.00                    |
| 111.25 | 10C x 2.5 sq. mm (Cu)   | 4.00     | Nos.  | 118.00                           | 472.00                     |
| 111.26 | 12C x 2.5 sq. mm (Cu)   | 12.00    | Nos.  | 168.00                           | 2016.00                    |
| 111.27 | 19C x 2.5 sq. mm (Cu)   | 20.00    | Nos.  | 237.00                           | 4740.00                    |
| 111.28 | Single core XLPE insulated 3.3 KV grade unarmoured FRLS PVC outer sheathed cable for earthing   |          |       |                                  |                            |
| 111.29 | 1C x 185 sq. mm (Al)  | 10.00    | Nos.  | 85.00                            | 850.00                     |
| 111.30 | Single core XLPE insulated 1.1 KV grade unarmoured FRLS PVC outer sheathed cable for earthing   |          |       |                                  |                            |
| 111.31 | 1 x 185 sq. mm (Al)   | 2.00     | Nos.  | 85.00                            | 170.00                     |
| 111.32 | 1 x 16 sq. mm (Al)  | 2.00     | No.   | 35.00                            | 70.00                      |
| 112.00 | STRAIGHT THROUGH JOINTS   |          |       |                                  |                            |
| 112.10 | Straight through joining of HV XLPE insulated armoured cables of following sizes excluding supply of straight through joining kit including all labour and materials complete as per Technical Specification and direction of engineer-in-charge.   |          |       |                                  |                            |
| 112.11 | 3C x 400 sq. mm (Al, 3.3 KV)  | 1.00     | No.   | 6350.00                          | 6350.00                    |
| 112.12 | 3C x 240 sq. mm (Al, 3.3 KV)  | 1.00     | No.   | 3780.00                          | 3780.00                    |
| 113.00 | DISTRIBUTION BOARDS   |          |       |                                  |                            |
| 113.10 | Installation, testing and commissioning of following floor / wall mounted DC Distribution Boards, including supply and fabrication of epoxy painted MS frame, operational and functional checking, drilling of gland plates with requisite holes, fixing of cable glands, plugging of all unused cable entries and other holes found in the boards to make the same dust and vermin proof with all labour and consumable materials to make installation complete as per approved drawings, specifications and directions of engineer-in-charge. |          |       |                                  |                            |
| 113.11 | 115 V, 2 Wire, sheet steel enclosed DC Distribution Board (DCDB). It shall consist of 1 nos. incoming 63 A DP MCCB incomers (with CN & OFF Indication Light) and 16 Nos. 32 A DP MCCB as outgoing feeders.  | 1.00     | No.   | 6840.00                          | 6840.00                    |



## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|---|----------|-------|----------------------------------|----------------------------|
|        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 113.12 | Installation, testing and commissioning of following wall mounted Lighting sub Distribution Boards / Single Phase Socket Distribution Boards, including supply and fabrication of epoxy painted MS frame, operational and functional checking, drilling of gland plates with requisite holes, fixing of cable glands, plugging of all unused cable entries and other holes found in the boards to make the same dust and vermin proof with all labour and consumable materials to make installation complete as per approved drawings, specifications and directions of engineer-in-charge.   |          |       |                                  |                            |
| 113.13 | 415 V, 9-way wall/ Steel Structure mounted Sheet steel enclosed Lighting Sub Distribution Board / Power Distribution Board in IP55 degree of protection having 1 No. Incoming (63 A, 4 P MCCB) and 3 Nos. feeder circuit of 63A DP RCBO having 9 Nos. outgoing of 16 A DP RCBO (i.e. 3 Nos. 16 A DP RCBO per circuit).  | 3.00     | Nos.  | 6640.00                          | 20520.00                   |
| 113.20 | 415 V, 9-way wall/ Steel Structure mounted Sheet steel enclosed Lighting Sub Distribution Board in IP55 degree of protection having 1 No. Incoming (63 A, 4 P MCCB) and 3 Nos. feeder circuit of 63A DP RCBO having 9 Nos. outgoing of 16 A DP RCBO (i.e. 3 Nos. 16 A DP RCBO per circuit), photocell/ timer controlled with Contractor.  | 1.00     | No.   | 6640.00                          | 6640.00                    |
| 114.00 | LIGHTING FIXTURES AND JUNCTION BOXES  |          |       |                                  |                            |
| 114.10 | Installation, connection, testing and commissioning of pre-wired LED Lighting fixtures along with integral / non-integral control gears, lamps, Driver etc, mounting accessories, including cable glanding, crimping of lugs on cable conductor & connecting cables at fixtures, earthing, junction boxes, etc. including supply of all connecting materials like clamps, supports, conduits, down rods etc. as required as well as transportation from store to site of erection with all labour and material to make installation complete in all respect as per approved drawings, specifications and directions of engineer-in-charge. The rates shall be valid for all mounting heights. |          |       |                                  |                            |
| 114.11 | 45 W LED Street Lighting Fixtures.  | 6.00     | Nos.  | 550.00                           | 3300.00                    |
| 114.12 | 90 W LED Street Lighting Fixtures.  | 6.00     | Nos.  | 735.00                           | 4410.00                    |
| 114.13 | 240V 1-ph suspension/ wall mounted T8 type LED Lighting Fixture with/ without reflector having IP20 Protection  |          |       |                                  |                            |
| 114.14 | 2 x 20 W LED suspension mounted Lighting Fixture with vitreous enameled reflector type fixture.   | 50.00    | Nos.  | 735.00                           | 36750.00                   |
| 114.15 | 110V DC, hose and weather proof Lighting fixtures suitable for use in safe area complete with all accessories and all hardware for fixing the lighting fittings with ceiling / wall / pole of following types as specified in Technical specification - Electrical System (Doc No. PC/150/E/11/P-1/SecVI-5.0).  |          |       |                                  |                            |
| 114.16 | 100 W GLS Bulk head DC Panic Lighting fixtures  | 10.00    | Nos.  | 535.00                           | 5350.00                    |
| 114.17 | 240V AC, 1-Ph, Flame proof Lighting fixtures with integral control gear box and lamps suitable for use in hazardous area Zone-1 having IP-66 degree of protection complete with all accessories and all hardware for fixing the lighting fittings with structure / surface (including flameproof cable glands).   |          |       |                                  |                            |
| 114.18 | 1 x 20 W LED tube light fixture   | 3.00     | Nos.  | 645.00                           | 1935.00                    |
| 114.19 | Installation, connection, testing and commissioning of Junction Boxes, including cable glanding, crimping of lugs on cable conductor & connecting cables, earthing etc. including supply of all connecting materials like clamps, supports etc. as required as well as transportation from store to site of erection with all labour and material to make installation complete in all respect as per approved drawings, specifications and directions of engineer-in-charge. The rates shall be valid for all mounting heights.  |          |       |                                  |                            |
| 114.20 | 63A, 415V, 3 Ph. & N, 4 way hoseproof & weather proof junction boxes in cast aluminium (LM6) enclosure complete with terminal block, rolled aluminium cable glands suitable for 2Nos. 3.5C-60 Sq. mm (Al) & 1 no. 3 x 2.5mm2 cable and threaded plug.   | 1.00     | No.   | 935.00                           | 935.00                     |
| 114.21 | 25A, 230V, 1 Ph. & N, 4 way hoseproof & weather proof junction boxes in cast aluminium (LM6) enclosure complete with terminal block, rolled aluminium cable glands suitable for 3 x 2.5mm2 cable and threaded plug.   | 40.00    | Nos.  | 955.00                           | 38200.00                   |



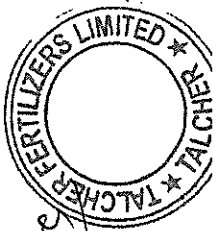
## SCHEDULE OF RATE (SOR)

| SlNo   | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|---|----------|-------|----------------------------------|----------------------------|
|        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 115.00 | <b>PLANT LIGHTING POLES</b><br>Erection and commissioning of following hot dipped galvanised mild steel tubular swaged lighting poles including transportation of required items from owner's issue point to site and installation of poles, junction box, supply of requisite cable glands and lined copper lugs, cable termination, necessary hardware required for excavation, providing concrete foundation (ratio of cement : sand : stone chips = 1:2:4) for ground installation, disposal of surplus earth within 30 m lead, earthing and painting with all labour to make installation complete in all respect as per instruction and directions of engineer-in-charge.                                 |          |       |                                  |                            |
| 115.11 | 9m. high ground mounted poles (Single Arm)  | 2.00     | Nos.  | 9500.00                          | 19000.00                   |
| 115.12 | 5m. high ground mounted poles (Single Arm)  | 2.00     | Nos.  | 8800.00                          | 17600.00                   |
| 116.00 | <b>EARTHING SYSTEM</b>  |          |       |                                  |                            |
| 116.10 | <b>EARTH PIT</b>  |          |       |                                  |                            |
| 116.11 | Installation, testing and commissioning of earth pits as per earthing layout drawings (excluding supply of safe earth electrodes & accessories) including digging the earth up to required depth, erecting safe earth electrode, disposal of surplus earth (as directed by engineer-in-charge) and back filling of the pit as required including supply of erection material providing necessary brick works and other civil works, fixing G.I. L-shaped test links and brackets, twisted piece and connecting to it earth electrodes and earth strips with all labour and materials to complete installation work in all respect as per approved drawings, specifications and directions of engineer-in-charge | 20.00    | Nos.  | 5500.00                          | 110000.00                  |
| 116.12 | <b>EARTH-BUS BAR</b>  |          |       |                                  |                            |
| 116.13 | Installation and commissioning of hot dip galvanised earth bus bar of size 360 mm x 75 mm x 10 mm with 10 holes of 14 mm dia. including all labour and materials to complete installation in all respect as per approved drawings, specifications and directions of engineer-in-charge.   | 6.00     | Nos.  | 680.00                           | 4080.00                    |
| 116.14 | <b>EARTHING GRID</b>  |          |       |                                  |                            |
| 116.15 | Installation, testing and commissioning of Hot dip galvanised G.I. earthing strip running on O.H. cable trays / cable trays in underground cable trenches / buried under soil in already excavated cable trenches of depth 600mm or supported by G.I. saddles & saddle bars as mentioned below including interconnection between different earth pits, strip / cable for connection to various equipments & system neutral, necessary hardware for connection and interconnection between earth bus bars including all labour and miscellaneous materials to make installations complete in all respect as per approved drawings, specifications, instructions and directions of engineer-in-charge.            |          |       |                                  |                            |
| 116.16 | 75mm X12mm  | 400.00   | Mtrs. | 243.00                           | 97200.00                   |
| 116.17 | 50mm X 8mm  | 200.00   | Mtrs. | 127.00                           | 25400.00                   |
| 116.18 | 32mm X 6mm  | 25.00    | Mtr.  | 68.00                            | 1700.00                    |
| 116.19 | 25mm X 3mm  | 25.00    | Mtr.  | 47.00                            | 1175.00                    |
| 116.20 | 8 SWG GI wire   | 50.00    | Mtrs. | 13.00                            | 650.00                     |
| 117.00 | <b>FABRICATION OF STEEL STRUCTURE</b>   |          |       |                                  |                            |



## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 117.10 | Fabrication and installation of MS frame supports and brackets for various equipment base frame, miscellaneous electrical equipment support, made of channels, angles, flats etc. of different sections including bolting, welding, riveting, supply of necessary anchor bolts and grouting etc. including 2 coats of zinc rich anti-rust epoxy primer and 2 finished coats of epoxy paint including breaking wall, floor etc. and making good the same with all labour and consumable materials to complete installation in all respect as per approved drawings, specifications and directions of engineer-in-charge   | 2.50     | MT    | 75500.00                         | 188750.00                  |
| 117.11 | Fabrication and installation of 8mm thick chequered plate in flooring, steps, covers over cable trenches in switch board room, painting with one coats of bitumen paint in the 50% thinner with two coats of black bitumen paints including supply of all consumables and paints.  | .50      | MT    | 75500.00                         | 37750.00                   |
| 117.12 | Fabrication & installation of 2 mm thick Al sheet for rain protective hood for equipment e.g. motors, switch sockets, junction boxes etc.  | 3.00     | m2    | 1500.00                          | 4500.00                    |
| 118.00 | G.I. PIPES / HDPE PIPES  |          |       |                                  |                            |
| 118.10 | Installation of G.I. pipes of following sizes for cable protection, floor sleeves etc. fixed on a steel structure, concrete, laid in trenches including concrete cutting, bending, threading etc to a clamp, nuts, bolts sockets, reducers, spacers, plug, bushing, chipping of concrete floor, breaking of concrete cable trench, walls and complete with all labour and material as per directions of engineer-in-charge.  | 20.00    | Mtrs. | 285.00                           | 5300.00                    |
| 118.11 | 50 mm NB   | 20.00    | Mtrs. | 575.00                           | 11500.00                   |
| 118.12 | 100 mm NB  | 1.00     | m3    | 7500.00                          | 7500.00                    |
| 118.13 | Cutting, chipping, breaking of RCC floor and wall for making holes/cut out/grooves etc. and making good the damage after laying pipes, cable etc. With cement, sand mortar as required.  | 1.00     | m3    | 4500.00                          | 4500.00                    |
| 118.14 | Same as above but for brick walls.   | 1.00     | m3    | 4500.00                          | 4500.00                    |
| 118.15 | Drilling of hole under Road for laying of Pipe for Cable pulling   |          |       |                                  |                            |
| 118.16 | 100 NB Dia.  | 10.00    | Mtrs. | 8500.00                          | 85000.00                   |
| 118.17 | 150 NB Dia.  | 10.00    | Mtrs. | 11500.00                         | 115000.00                  |
| 119.00 | CAPACITOR BANK   |          |       |                                  |                            |
| 119.10 | Installation, Testing & Commissioning of Capacitor Bank alongwith VCB, RVT, series reactor, Control Panel, APFC Relay, HT vacuum contactor, HT Fuse, Relays etc. complete in all respect.  |          |       |                                  |                            |
| 119.11 | 500 KVAR Capacitor bank (2 Steps of 250KVAR each)  | 2.00     | Sets  | 48860.00                         | 97720.00                   |
| 120.00 | DC SYSTEM  |          |       |                                  |                            |
| 120.10 | Installation & Commissioning of medium discharge Nickel Cadmium type, 110 V, 80 AH battery bank with 50 A Battery Charger complete with one no. cell booster as per specification in Technical specification - Electrical System (Doc No. PC150/E/11/P-II/Sec-5.0), Technical Specification - Battery Charger (Doc. No. PC150-TS-0810) and Technical Specification - Battery (Doc. No. PC150-TS-0811). The item includes batteries batteries with all accessories including Battery Stand; Main Float cum Load cum Boost charger, Standby Float cum Load cum Boost charger; interconnecting Power copper cables, insulated copper links, earthing of battery Charger and battery stand, connection and termination of power and control cables of battery charger, battery bank and etc., supply of double compression rolled aluminium cable glands and suitable cable lugs (BI metallic), plugging of all unused cable entries etc., all consumables, materials, labour, tools and tackles, etc. for the completeness of system as per drawings, specification and directions of Engineer-in-Charge. | 1.00     | Set   | 39240.00                         | 39240.00                   |
| 121.00 | FCMA Slender   |          |       |                                  |                            |



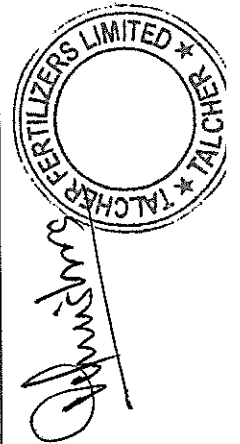


| SCHEDULE OF RATE (SOR) |   |          |       |                                  |                            |  |
|------------------------|---|----------|-------|----------------------------------|----------------------------|--|
| Sl.No                  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |  |
|                        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |  |
| 121.10                 | Installation, Testing & Commissioning of 3.3 KV FCMA Starter with Vacuum Contactors, HT Fuses, Metering etc. for 3.3 KV Motors for Water Pumps complete in all respect.   | 4.00     | Set   | 18880.00                         | 75440.00                   |  |
| 122.00                 | LOCAL CONTROL STATION ( LCS )   |          |       |                                  |                            |  |
| 122.10                 | Installation & Commissioning of Weather Proof Local Control Station of following type.  |          |       |                                  |                            |  |
| 122.11                 | LCS with Trip-Neutral-Close control switch, Local-OFF-Remote Selector Switch with Ammeter & 5 nos. indication lamp  | 4.00     | Set   | 1135.00                          | 4540.00                    |  |
| 123.00                 | EXHAUST FANS  |          |       |                                  |                            |  |
| 123.10                 | Installation & Commissioning of single phase exhaust fan with guards/ louvers, along with necessary brackets, all required civil works, making good the walls after fixing the fans etc.  |          |       |                                  |                            |  |
| 123.11                 | 450 mm sweep heavy duty exhaust fan with self opening louvers.  | 14.00    | Nos   | 670.00                           | 9380.00                    |  |
| 123.12                 | Installation & Commissioning of single phase flameproof chemical resistant industrial exhaust fan (suitable for use in hazardous area Zone-1) with guards/ louvers, along with necessary brackets, all required civil works, making good the walls after fixing the fans etc. |          |       |                                  |                            |  |
| 123.13                 | 300 mm sweep heavy duty exhaust fan.  | 2.00     | Nos   | 840.00                           | 1680.00                    |  |
| 123.14                 | Installation & Commissioning of the stainless steel SS-304 air terminations, base plate & clamping of down Conductor complete with base plate, concrete coping fixing accessories and clamping with down Conductor  | 2.00     | Nos.  | 960.00                           | 1920.00                    |  |
| 124.00                 | MISCELLANEOUS   |          |       |                                  |                            |  |
| 124.10                 | Fixing of Caution boards / dangers boards written in ENGLISH & HINDI of the following voltages.   |          |       |                                  |                            |  |
| 124.11                 | 33 KV   | 2.00     | Nos.  | 550.00                           | 1100.00                    |  |
| 124.12                 | 3.3 KV  | 2.00     | Nos.  | 550.00                           | 1100.00                    |  |
| 124.13                 | 415 Volts   | 5.00     | Nos.  | 550.00                           | 2750.00                    |  |
| 124.14                 | Fixing of shock treatment chart written in English and Local language duly framed and approved by engineer-in-charge.   | 5.00     | Nos.  | 550.00                           | 2750.00                    |  |
| 124.15                 | Fixing of Do & Don't chart as per Indian Electricity Rules in Aluminum frame with glass   | 2.00     | Nos.  | 550.00                           | 1100.00                    |  |
| 124.16                 | Fixing of S/S Single Line Diagram in Aluminum frame with glass.   | 1.00     | No.   | 550.00                           | 550.00                     |  |
| 124.17                 | Installation of portable CO2 type fire extinguisher (4.5 liter capacity).   | 4.00     | Nos.  | 550.00                           | 2200.00                    |  |



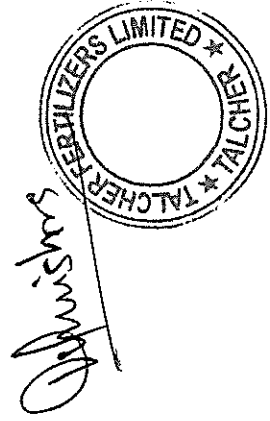
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | RATE AND AMOUNT IN INDIAN RUPEES |       |            |                            |
|--------|--|----------------------------------|-------|------------|----------------------------|
|        |  | QUANTITY                         | UNITS | UNIT PRICE | TOTAL AMOUNT EXCLUDING GST |
| 124.18 | Installation of Sand buckets with stand (each with at least 3 sand buckets).   | 4.00                             | Nos.  | 550.00     | 2200.00                    |
| 124.19 | Fixing of CPR (CARDIO PULMONARY RESUSCITATION) Charts.   | 2.00                             | Nos.  | 550.00     | 1100.00                    |
| 124.20 | Fixing of High Voltage danger signage (Skull & bones).   | 10.00                            | Nos.  | 550.00     | 5500.00                    |
| 124.21 | Fixing of Exit Route / Emergency Exit Route Signage.   | 2.00                             | Nos.  | 550.00     | 1100.00                    |
| 124.22 | Fixing of synthetic insulating mats in front of various panel boards as per directions of engineer-in-charge including supply of all consumables for fixing.   |                                  |       |            |                            |
| 124.23 | 33KV Voltage grade having nominal thickness of 3.0 mm ± 10% Class C  | 6.00                             | Mtrs. | 550.00     | 3300.00                    |
| 124.24 | Up to 3.3KV Voltage grade having nominal thickness of 2.0mm ± 10% Class A  | 40.00                            | Mtrs. | 550.00     | 22000.00                   |
| 124.25 | Grouting and Installation of Cable Route Marker  | 3.00                             | Nos.  | 550.00     | 1650.00                    |
| 124.26 | Installation, testing and commissioning of 240V, 1-Ph. Wall Mounting Fans / Ceiling Fans (with Electronic Regulator) / Man Cooler Fans etc on wall / Ceiling / Steel Structure including supply, fabricating and grouting of MS Frame / Hooks and other hardware etc.  | 4.00                             | No.   | 550.00     | 2200.00                    |
| 124.27 | Installation and commissioning of 32 Amps D.P./ 63/125A T.P.N. switch/ Welding receptacles/ Photocell Switch/ Energy Meter/ Telephone DP or other equipment of equivalent size in box on suitable angle iron frame or in a M.S. Box including grouting on walls or welding with structure.   | 5.00                             | No.   | 550.00     | 2750.00                    |
| 124.28 | Installation, Testing & Commissioning of 4 pole structure with required bracing, cross arm etc for supporting the pin/strain type insulators, GGD, DO fuses (3No) with necessary 33 KV 10KA Station class lightning arresters, trifurcating cable box, CT, PT, Insulators, Jumpers, Guy wires as required/Ant climbing device, Danger board etc. Outdoor cubical type Metering Panel with Trivector Meter as per CESU requirement, suitable for receiving power from State Electricity Board CESU as per enclosed specifications, codes, standards, SLD, CESU guidelines etc. and complete in all respect.   | 2.00                             | Sets  | 83500.00   | 167000.00                  |
| 124.29 | Testing and commissioning of 3-Phase, Squirrel Cage, Weatherproof Induction Motors of following ratings excluding cable glanding, cable termination, dehydration of windings but including checking & replenishment/ replacement of bearing grease/ lubricant; checking of IR values between each winding & motor frame & checking of continuity of rotation, if required, by changing supply connections; trial runs on NO LOAD & ON LOAD; supply of approved grease/ lubricant & necessary hardware; all work, labour & materials complete as per specifications, documents, codes & standards & directions of Owner's Engineer-in-charge. (Contractor to keep proper record of tests on motors for NO LOAD & ON LOAD runs). |                                  |       |            |                            |
| 124.30 | 3.3 KV Motors of Rating upto 1000 KW   | 4.00                             | Nos.  | 14530.00   | 58120.00                   |
| 125.00 | EXCAVATION AND BACK FILLING  |                                  |       |            |                            |



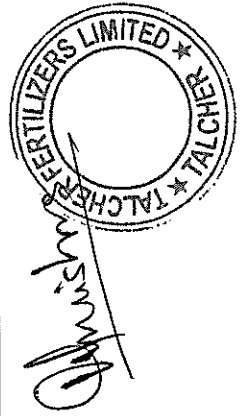
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 125.10 | Excavation 300 mtr. length x 1000 mm wide x 1250 mm deep and 7000 mtr. Length x 300 mm x 750 mm deep for laying of cables including disposal of excavated earth, lead up to 100 mtrs. and lift up to 1.5 mtrs., disposed earth to be levelled and neatly dressed   | 110.00   | M3    | 650.00                           | 71600.00                   |
| 125.11 | Back filling with excavated earth in trench including consolidating each deposited layer by ramming, dressing etc.   | 100.00   | M3    | 450.00                           | 45000.00                   |
| 126.00 | FINE RIVER SAND  |          |       |                                  |                            |
| 126.10 | Spreading of approved fine river sand in cable trenches up to a depth of 250 mm (100 mm below the centre line of cable and 150 mm above cable the centre line of cable) including all labour and materials to make the installation complete in all respect as per approved drawings, specifications and directions of engineer-in-charge.   | 10.00    | M3    | 850.00                           | 8500.00                    |
| 127.00 | BRICKS   |          |       |                                  |                            |
| 127.10 | Spreading of approved first class bricks of 4 inch thickness in cable trenches for cable protection including all labour and materials to make installation complete in all respect.   | 3500.00  | Nos.  | 8.00                             | 28000.00                   |
| 127.11 | Dismantling of Electrical equipments in the existing Pump House Area and shifting of same as per direction of Engineer-in-charge.  | 6.00     | MT    | 10500.00                         | 63000.00                   |
| 128.00 | Installation of Hume Pipes of following sizes:-  |          |       |                                  |                            |
| 128.10 | 200 mm Dia.  | 5.00     | Mtr.  | 750.00                           | 3750.00                    |
| 128.11 | 100 mm Dia.  | 5.00     | Mtr.  | 650.00                           | 3250.00                    |
| 128.12 | Installation, testing and commissioning of 230 V AC, 2 KVA Parallel Redundant UPS System with UPS Distribution Board (with 2 Nos. Incomers with MCCB, Ammeter, Voltmeter, Frequency meter, Indication Lights with Static Switch) and 10 Nos. Outgoing Feeders (with DP MCCB) to feed power supply to the instrumentation system etc. This UPS System shall be complete with 2 x 100% Ni-Cd Battery with backup of 5 Hours and other accessories. | 1.00     | Set   | 22500.00                         | 22500.00                   |
| 128.13 | Installation, testing and commissioning of hose proof & weatherproof, Wall/ Structure mounted 24 V DC Power Supply Unit of 100 VA Rating (IP-65 degree of protection) with inbuilt choppers and other accessories suitable for Single 110 V DC Input and Single 24 V DC Output of reputed make.  | 4.00     | Sets  | 6130.00                          | 24520.00                   |
| 128.20 | Installation, testing and commissioning of SCR based Soft Starter for 3.3. kW Motors for Raw Water Pumps<br>Each Soft Starter shall be suitable for Starting of 1 Nos. Motors, with Bypass Facility from Motor Feeders of 3.3 kV Switchboard.  | 4.00     | Sets  | 20540.00                         | 82160.00                   |
| 129.00 | deleted  |          |       |                                  |                            |
| 130.00 | Schedule of Rates For Temporary & Permanent Cathodic Protection System   |          |       |                                  |                            |



SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY  | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|-----------|-------|----------------------------------|----------------------------|
|        |  |           |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 130.10 | Basic surveys, Design, Detailed Engineering, Supply, testing at works, transportation on FOT Project site in well packed condition. Storage at site, transportation to work place, Physical verification/ inspection at site, Installation, testing, commissioning of TCP & PCP system for underground steel pipeline network of 35"dia, 3LPE Coated Pipelines which shall include but not limited to MMD anodes, Cables, Deep well anode ground beds, TR units, AUB, CUB, Sacrificial Mg anode, Zn ribbon anodes for casing protection, Type A/A1/B/C/D/E/F/G Test Stations, Cu/CuSO4 reference electrode, Spark gap surge diverter with Zinc grounding cell for Monolithic Insulating/insulating flange joint, Zinc Grounding Anodes & Solid State Polarisation cell for HT Electric Line Crossing, Themit Weld Kit along with all accessories for 25005/10 sq.mm cable to pipe connection including all work labour, materials, hardwares, civil machinery & structural materials. Scope shall also include Supply of tools and equipments for Erection, Pre commissioning & Commissioning activities, Supply of Mandatory Spares etc. Further scope shall also include Post Commissioning CP surveys like C/PL, DCVG, AC/DC Interference detection & mitigation Survey etc, supply and installation of mitigative measures in order to achieve adequate level of protection as per NACE criteria, TCP system monitoring for 24 weeks from date of commissioning of TCP, Monitoring of complete PCP for 3 month from date of commissioning, complete with all work labour, materials, hardware, civil masonry & structural materials. Above activities shall be as per Technical Specification for Electrical System (PC150/E/111/f) and its attachments Technical Specification - Cathodic Protection Power Supply Module (CPPSM) (PC150-TS-0817). Technical Specification - Cathodic Protection Transformer Rectifier Unit (PC150-TS-0818), Technical Specification - Impressed Current Cathodic Protection System (PC150-TS-0819), drawings and instruction of Owner's Engineering-charge. | 13000.00  | Mtrs  | 1365.00                          | 17745000.00                |
| 131.00 | deleted  |           |       |                                  |                            |
| 132.00 | deleted  |           |       |                                  |                            |
| 133.00 | PART D   |           |       |                                  |                            |
| 134.00 | SCHEDULE OF RATES FOR CIVIL WORKS  |           |       |                                  |                            |
| 135.00 | DREDGING WORKS, BATHYMETRIC & PIPELINE ROUTE SURVEY  |           |       |                                  |                            |
| 135.10 | Dredging and desilting of sediments/materials/ Aquatic plants viz: hydrilla, water hyacinth, duck weed, trash etc., and deepening the Brahmani river in and around the Intake well and intake channel bed, upto a depth of 1.5 m below minimum water level required for intake well, using Cutter-Suction dredger. Dismantling and desilting of the natural spur formed ups of intake well. De-silting by dredging shall be carried out in approx. 2.5 hectares of area demarcated in the Brahmani river and adjoining land and disposing the dredged materials up to a distance of 2.5 km. With inclusive of soils such as sand, silt mixed with/without clay or soft clay. Including Mobilization of equipment, loading and transporting complete in all respect and as per direction of Engineer-in-Charge.   | 100000.00 | Cu.M  | 205.00                           | 20500000.00                |
| 135.11 | Bathymetric Survey in and around Intake well up to the required depth to ascertain the quantity of river bed material prior to an after dredging work at a suitable grid interval, as decided by EIC, is to be done.   | 1.00      | LS    | 500000.00                        | 500000.00                  |
| 136.00 | ARCHITECT PLANNER  |           |       |                                  |                            |
| 136.10 | Engagement of the services of Architect Planner for the renovation work of the existing structure as well new structures (inclusive of supply of materials and services)   | 1.00      | LS    | 195000.00                        | 195000.00                  |
| 137.00 | EARTH WORKS  |           |       |                                  |                            |
| 137.10 | Excavation to required side slopes below ground level in all kinds of soils as defined in IS: 1200 for foundations, isolated pits, trenches for pipelines /cables, pipe sleepers, drains, etc., to the required levels and grades in both dry and wet conditions, including de-watering of accumulated water from any source, dressing of sides and ramming of bottoms, getting out excavated earth with lift upto 1.50 M and disposal of surplus excavated materials within a lead of 500 M including stacking in layer not exceeding 20 cm, levelling and dressing etc., including providing temporary supports to all service lines such as overhead and underground water, sewage and drain pipes, cables etc. and shoring and stutting including dewatering wherever necessary, complete in all respects as per direction of Engineer-in-Charge.  | 20000.00  | Cu.M  | 330.00                           | 6600000.00                 |



## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 137.11 | Lift from 1.5 M to 3.0 M.  | 2000.00  | Cu.M  | 440.00                           | 880000.00                  |
| 137.12 | Locating and survey of existing 90mm buried concrete pipeline and other facilities in the ROU, obtaining work permits/NOC from various statutory authorities having jurisdiction before execution of the work, and complying with all stipulations/conditions/recommendations of the authorities; cleaning & grading of the ROU; Counting the number and type of trees cut in presence of DFO/concerned authorities and keeping record thereof; cutting/pruning of trees within ROU, shifting of all obstruction within the ROU/pipeline route alignment viz. electrical line/pole, telephone line (poles), foreign pipeline, coordination with concerned authorities and obtaining work permits/NOC from these authorities, surveys for crossings/trenching to all depths including excavation in all types of soils including chiseling as required for removal of the existing buried pipeline, including removal of pipe casings, valves, deployment of required equipments, machinery & manpower, carrying out necessary coordination, liaison & interface with local people & other agencies, providing temporary access way/ pathway for local people (as required); Arrangement of all additional land required for contractor's storage, access to construction; supply of all materials, consumables; carrying out cutting, lifting, removal, transportation, handling, including loading and unloading of existing pipeline including deployment of trailers, trucks, equipments & cranes; stacking of serviceable concrete pipes within plant battery limit/as per decision of EIC, including suitable end blinding of the pipeline sections at crossings or sections where pipeline are not/cannot be removed; carrying out all temporary, ancillary, auxiliary works and all incidental & associated works not indicated herein but required to complete the work as per scope of work, specifications, standards, drawings and other provisions of the contract & instructions of Engineer-in-charge. | 13000.00 | RM    | 160.00                           | 2080000.00                 |
| 137.13 | Disposal : Removal and carriage of surplus excavated earth, debris, etc., from the site of work to dump yard as per instructions of EIC, beyond the initial lead of 500 M and spreading and leveling the same in layers not exceeding 20 cm thickness including loading and unloading as per the direction of Engineer-in-Charge.  | 1000.00  | Cu.M  | 230.00                           | 230000.00                  |
| 137.14 | Same as item No. 137.13, but for lead distance up to 5-10 km   | 1000.00  | Cu.M  | 470.00                           | 470000.00                  |
| 137.15 | Same as item No. 137.13, but for lead distance up to 10-20 km  | 1000.00  | Cu.M  | 650.00                           | 650000.00                  |
| 137.16 | Backfilling: Filling with available excavated good earth (excluding rocks / boulders), as approved and directed by Engineer-in-Charge, in trenches, plinth, under floors, sides of foundation etc., at all depths in layers not exceeding 20cm. in thickness including consolidating and dressing each deposited layer by ramming and watering with lead upto 50 metres, complete in all respects.   | 867.00   | Cu.M  | 375.00                           | 325125.00                  |
| 137.17 | Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks, reservoirs etc., lead upto 50 m and lift upto 1.5 m : - All kinds of soil  | 300.00   | Cu. M | 600.00                           | 180000.00                  |
| 137.18 | Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.  | 500.00   | Sq.m  | 905.00                           | 452500.00                  |
| 138.00 | PLAIN CEMENT CONCRETE (PCC)  |          |       |                                  |                            |
| 138.10 | Providing and laying Plain Cement Concrete (PCC) of 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 20 mm nominal size), machine mixed and mechanically vibrated in foundations and plinth beams, for rafts, footings, bases of pedestals, trenches and pits, machine and equipment foundations, pile caps, pipe supports, etc., including all necessary cost of centering and shuttering, complete in all respects as per direction of Engineer-in-Charge.   | 34.00    | Cu.M  | 9850.00                          | 334900.00                  |
| 138.11 | Providing and laying Plain Cement Concrete (PCC) of 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size), machine mixed and mechanically vibrated in foundations and plinth beams, for rafts, footings, bases of pedestals, trenches and pits, machine and equipment foundations, pile caps, pipe supports, etc., including all necessary cost of centering and shuttering, complete in all respects as per direction of Engineer-in-Charge.   | 45.00    | Cu.M  | 10250.00                         | 461250.00                  |



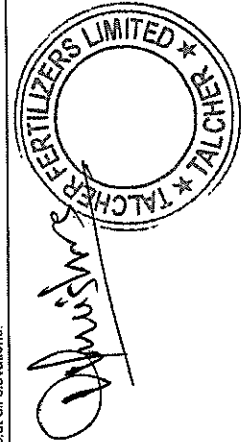
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 139.00 | REINFORCED CEMENT CONCRETE (RCC)   |          |       |                                  |                            |
| 139.10 | Providing and laying in position reinforced cement concrete in columns, beams etc. including the cost of centering, shuttering, finishing but excluding reinforcement - All work above plinth level  |          |       |                                  |                            |
| 139.11 | Design mix M20 grade concrete  | 50.00    | Cu.M  | 8500.00                          | 425000.00                  |
| 139.12 | Design mix M25 grade concrete  | 250.00   | Cu.M  | 9000.00                          | 2250000.00                 |
| 139.13 | Design mix M30 grade concrete  | 100.00   | Cu.M  | 9500.00                          | 950000.00                  |
| 139.14 | Providing and laying in position reinforced cement concrete in foundations, walls, plinth beams etc. including the cost of centering, shuttering, finishing but excluding reinforcement - All work up to plinth level  |          |       |                                  |                            |
| 139.15 | (1) Design mix M20 grade concrete  | 130.00   | Cu.M  | 8800.00                          | 1144000.00                 |
| 139.16 | (2) Design mix M25 grade concrete  | 140.00   | Cu.M  | 9500.00                          | 1330000.00                 |
| 139.17 | (3) Design mix M30 grade concrete  | 50.00    | Cu.M  | 10000.00                         | 500000.00                  |
| 139.18 | Repairing & Renewing existing RCC/Cement concrete works in patches including chipping / dismantling the damaged portion to required depth/width and re-doing the same with rich cement concrete/cement mortar and making good the same as the existing shape. Including scaffolding, centering, shuttering and disposal of unserviceable material within 500 metres leads etc. Complete in all respects as per direction of Engineer-in-Charge.  | 20.00    | Cu.M  | 105000.00                        | 2100000.00                 |
| 139.19 | Grading roof for water proofing treatment with - Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)   | 20.00    | Cu.M  | 6850.00                          | 137000.00                  |
| 139.20 | Neat cement punning.   | 500.00   | Sq.m  | 45.00                            | 22500.00                   |
| 140.00 | REINFORCEMENT AND EMBEDMENTS   |          |       |                                  |                            |
| 140.10 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete with hot rolled, cold twisted, weldable high yield deformed CRSD (Corrosion Resistance Steel with Fe500D properties) rebar having Characteristic yield strength 500N/mm <sup>2</sup> ; in accordance with IS:1786. (Fe 500 of only TATA/SAIL/JSW/RINL/SHYAM STEEL make steel to be used)   | 71.00    | MT    | 85000.00                         | 6035000.00                 |
| 140.11 | Anchor Bolts: Supplying, fabricating and fixing in position M.S. holding down bolts assembly consisting anchor bolts, heads, nuts, washers etc., and the like including embedding in cement concrete/R.C.C. works including one coat of approved quality anti-corrosive paint over a coat of approved quality primer. (All material supply is in contractor's scope.)  | 500.00   | Kg.   | 80.00                            | 40000.00                   |
| 140.12 | Insert Plates: Supplying, fabricating, erecting and fixing in position to line and level all M.S inserts such as anchor plates, angles, tees, channels, plates with lugs, hooks, sleeves etc. embedding in cement concrete /R.C.C. works at all levels including welding, bolting, drilling, cutting, scaffolding, holding in position, providing one coat of approved anti-corrosive paint and / or Bituminous paint on exposed surfaces, etc. all complete in all respects and as per direction of Engineer-in-Charge. (Templates if any required for fixing the inserts will not be paid for).  | 1000.00  | Kg    | 95.00                            | 95000.00                   |
| 141.00 | STRUCTURAL STEEL   |          |       |                                  |                            |
| 141.10 | Supplying, de-rusting by shot blasting, fabricating, erecting, hoisting and fixing in position structural steel work in rolled steel joints, channels, angles tees, flats, plates, lattice members built up / compound sections in columns, portals, girders, beams, bracing, trusses, Purlins, rafters, staircase, steps, hand-railings, walkway, lee plates, side walling, trusses, Conveyor gantries, screens etc. including gusset plates, anchor plates etc., including site and shop fasteners, riveting, bolting, welding at shop or work site at all heights etc. & epoxy painting complete direction of Owner / Consultant. (All material supply is in contractor's scope including paints) |          |       |                                  |                            |
| 141.11 | With providing and applying two coats of chlorinated rubber based high build zinc phosphate primer of approved brand and manufacture compatible to chlorinated rubber paint at a dry film thickness of 50 micron per coat on structural steel work after preparation of surfaces including providing and applying two coats of chlorinated rubber based paint of approved colour, brand and manufacture at a dry film thickness of 50 microns per coat on structural steel work complete in all respects as per specifications and direction of Engineer-in-Charge.  | 20.00    | MT    | 150000.00                        | 3000000.00                 |



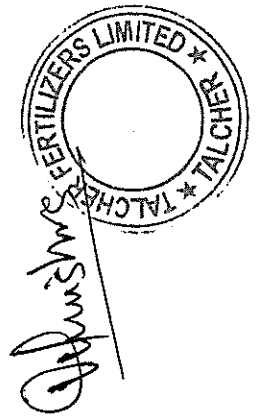
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY  | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|-----------|-------|----------------------------------|----------------------------|
|        |  |           |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 141.12 | Providing and fixing rolling shutters of approved make made of 80 mm wide MS Iaths and interlocked together through their entire length and joined together at the ends by end locks, mounted on specially designed pipe shaft with bracket plates, guide channels and arrangement for inside and outside locking with push-pull operation complete including cost of wire spring and hood cover for the shutters and painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade. - new work with two coats including a coat of approved steel primer and a coat of mordant solution with 38 gms of copper acetate in a litre of soft water.  | 200.00    | Sq.m  | 3010.00                          | 602000.00                  |
| 141.13 | Extra for providing mechanical device chain and crank operation for operating rolling shutters. - Exceeding 16.80 sqm in the area  | 50.00     | Sq.m  | 1150.00                          | 57500.00                   |
| 141.14 | Structural steel work in single section/built up section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade - new work with two coats including a coat of approved steel primer and a coat of mordant solution with 38 gms of copper acetate in a litre of soft water.   | 156000.00 | Kg.   | 250.00                           | 39000000.00                |
| 141.15 | Steel work welded in built up sections/ framed work/MSS Screens for Sluice Gates/trash racks, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. - in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works  | 500.00    | kg    | 140.00                           | 70000.00                   |
| 141.16 | Providing mechanical device chain and crank operation for lifting mechanism - for above  | 2.00      | LS    | 1150.00                          | 2300.00                    |
| 141.17 | Providing, fabricating and fixing in position double leaf transformer gates of any height with one wicket door within the main gate, all made out of structural steel sections such as M.S. Angles, Tees, Channels, Plates, etc. for all horizontal, vertical and diagonal members, M.S. Gussel plates including providing and fixing in position at all heights hard drawn steel wire fabric mesh of size 75 mm x 25 mm and weight not less than 7.75 kg/sq.m. welded with frames, including providing and fixing necessary lock plate, handles, locking arrangement and other fittings, drilling of holes wherever required, welding etc. including providing necessary hinge plates welded to insert plates embedded in RCC columns, bolts and nuts for hinge etc. including surface preparation by shot blasting/power driven brushes, providing and applying painting, complete in all respects as per drawings and direction of Engineer-in-Charge |           |       |                                  |                            |
| 141.18 | With providing and applying two coats of high build zinc phosphate primer of approved brand and manufacture compatible to chlorinated rubber paint at a dry film thickness of 50 micron per coat on structural steel work after preparation of surfaces including providing and applying two coats of chlorinated rubber based paint of approved colour, brand and manufacture at a dry film thickness of 50 microns per coat.   | 8.00      | MT    | 150000.00                        | 1200000.00                 |
| 142.00 | BRICK WORK, PLASTERING & FINISHING   |           |       |                                  |                            |
| 142.10 | Providing and constructing Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in cement mortar 1 : 6 (1 cement: 6 coarse sand joints), etc. at all depths, places and positions including raking out joints, curing, scaffolding etc. complete excluding plastering and painting.  | 147.00    | Cu.M  | 7150.00                          | 1051050.00                 |
| 142.11 | Supplying and providing coarse rubble stone masonry (300 Thick) in cement mortar 1:6 (1 cement: 6 coarse sand) on sloping surfaces of earthen embankment at all heights above ground bed level, complete in all respect and as per direction of Engineer-in-Charge.  | 500.00    | Sq.M  | 7500.00                          | 3750000.00                 |
| 142.12 | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-in-Charge. - With cement mortar 1:4 (1 cement: 4 fine sand)   | 598.00    | Sq.M  | 325.00                           | 194350.00                  |
| 142.13 | 12 mm thick cement plaster 1:6 (1 cement: 6 fine sand) after properly cleaning etc. as per instruction of P.D.L. Engineer.   | 854.00    | Sq.M  | 275.00                           | 234850.00                  |
| 142.14 | 15 mm thick cement plaster 1:6 (1 cement: 6 fine sand) after properly cleaning etc. as per instruction of P.D.L. Engineer.   | 1000.00   | Sq.M  | 315.00                           | 315000.00                  |
| 142.15 | 6mm thick cement plaster to ceiling of mix 1:3 (1 cement: 3 fine sand).  | 775.00    | Sq.M  | 225.00                           | 174375.00                  |
| 142.16 | Providing and applying two (2) coats of Oil bound washable distemper paint over interior walls of plastered surfaces as per IS 161, of approved manufacturer and in approved shades, including cleaning and preparing the wall surface, one layer of primer with distemper primer, curing, labour, material, scaffolding, equipment, handling, transportation etc. Cleaning slain from floors, walls, glass panes etc. all complete as per instructions of the Engineer. etc. at all elevations.   |           |       |                                  |                            |



## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 142.17 | On new work  | 500.00   | Sq.M  | 155.00                           | 82500.00                   |
| 142.18 | On old work  | 1350.00  | Sq.M  | 115.00                           | 155250.00                  |
| 142.19 | Providing and applying two (2) coats of Acrylic smooth of approved make (Asian/ Nerolac/ Berger or equivalent) as per IS 15489 of approved manufacture, quality and shades over exterior walls including labour, materials, equipment, handling, transportation, finishing, scaffolding and preparing the surface etc. Cleaning stain from floors, walls, glass panes etc. all complete instructions of the Engineer at all elevations. Roller to be used in the paint application.  | 500.00   | Sq.M  | 155.00                           | 77500.00                   |
| 142.20 | On new work  | 700.00   | Sq.M  | 110.00                           | 77000.00                   |
| 142.21 | On old work  | 1000.00  | Sq.M  | 85.00                            | 85000.00                   |
| 142.22 | Painting with synthetic enamel paint of approved brand and manufacture including a coat of approved primer, of required colour to give an even shade.  | 9700.00  | Sq.M  | 215.00                           | 2085500.00                 |
| 142.23 | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.  | 1000.00  | Sq.M  | 125.00                           | 125000.00                  |
| 142.24 | Distemping with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.  | 50.00    | Sq.M  | 1050.00                          | 52500.00                   |
| 143.00 | FENCING (MESH) & PAVEMENT BLOCK  |          |       |                                  |                            |
| 143.10 | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. - Made of G.I. wire of dia 4 mm   | 50.00    | RM    | 350.00                           | 17500.00                   |
| 143.11 | Providing and fixing concerned coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.m with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)  | 500.00   | Sq.M  | 1125.00                          | 562500.00                  |
| 143.12 | Providing and laying factory made chamfered edge Cement Concrete paver blocks in foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer-in-charge. - 80mm thick Cement concrete paver block of M-30 grade with approved colour, design & pattern. | 300.00   | Sq.M  | 9010.00                          | 2703000.00                 |
| 144.00 | FLOORING   |          |       |                                  |                            |
| 144.10 | Providing and laying TRIMIX RCC of grade M25 machine mixed, mechanically vibrated and fair finish the surface with heavy duty ironite floor topping (as per manufacturer specification) in panel not more than 3.0 m x 3.0 m, including cost of shuttering & curing but excluding cost of reinforcement.   | 50.00    | Sq.M  | 2000.00                          | 100000.00                  |
| 144.11 | Providing and laying Vitrified finish ceramic floor tiles on skirting made from tiles 600mm x 600mm (thickness to be specified by manufacturer) of height 100mm of first quality tiles conforming to IS:15522 of KAZARIA, NAVEEN, NITCO, ORIENT, SOMANY or equivalent make in all colours, shade and design as approved by E.I.C. laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment of matching shade complete in all respect at any level.  | 100.00   | Sq.M  | 1800.00                          | 180000.00                  |
| 144.12 | Providing and laying 1st quality ceramic glazed tiles 300mm x 300mm conforming to IS: 15522 of minimum thickness 5mm of approved make like KAZARIA, NITCO, ORIENT, SOMANY or equivalent make on walls in all colours, shade and design as approved by E.I.C. over 12mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3Kg per Sq.m. including pointing in white cement mixed with pigment of matching shade complete.   |          |       |                                  |                            |





## SCHEDULE OF RATE (SOR)

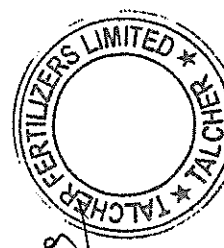
| SlNo   | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 144.13 | IPS Flooring: Providing and laying in position at all heights cement concrete mix 1:2.4 (1 cement: 2 coarse sand : 4 graded stone aggregate) in panels of 2 metre square or as directed and finished with floating coat of neat cement including providing cement slurry (with cement @ 2.2 kg/sq.m.), rounding of edges and glass strips but excluding the cost of nosing of steps etc., complete. - 40 mm. thick with 20.0 mm nominal size stone aggregate   | 300.00   | Sq.M  | 750.00                           | 225000.00                  |
| 144.14 | Making Plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.  | 550.00   | Sq.M  | 800.00                           | 440000.00                  |
| 145.00 | <b>SANITARY INSTALLATION</b>   |          |       |                                  |                            |
| 145.10 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. |          |       |                                  |                            |
| 145.11 | 15 mm nominal outer dia pipes  | 100.00   | R.M.  | 650.00                           | 65000.00                   |
| 145.12 | 20 mm nominal outer dia pipes  | 100.00   | R.M.  | 800.00                           | 80000.00                   |
| 145.13 | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, Single socketed pipes.   |          |       |                                  |                            |
| 145.14 | 75 mm dia.   | 100.00   | R.M.  | 450.00                           | 45000.00                   |
| 145.15 | 100 mm dia.  | 100.00   | R.M.  | 550.00                           | 55000.00                   |
| 145.16 | Providing and fixing vitreous china wash basin of Parryware or approved make and colour with C.I. brackets 15mm C.P. brass Pillar taps Jaquar no.011, 32 mm C.P. brass waste of standard pattern, including painting of fittings and C.I. brackets, cutting and making good the walls wherever required. - White Vitreous China Wash basin size 630 x 450 mm with a pair of 15 mm C.P. brass pillar taps   | 2.00     | Nos.  | 3500.00                          | 7000.00                    |
| 145.17 | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) of Cera make or equivalent with seat and lid, 10 litre low level white PVC flushing cistern with manually controlled device conforming to IS: 7231 with all fittings and fixtures complete including cutting and making good the walls and floors wherever required, including providing and fixing jet to W.C. Pan(European). - W.C. pan with ISI marked white solid plastic seat and lid                                 | 1.00     | No.   | 5750.00                          | 5750.00                    |
| 145.18 | Providing and fixing C.P. brass bib cock of Jaquar / Cera / Hindware or equivalent make, chrome finish of approved quality and 15 mm nominal bore.   |          |       |                                  |                            |
| 145.19 | Long body bib cock   | 10.00    | Nos.  | 700.00                           | 7000.00                    |
| 145.20 | Short body bib cock  | 10.00    | Nos.  | 400.00                           | 4000.00                    |
| 145.21 | Providing and fixing C.P. brass angle valve, 15 mm nominal bore of Jaquar make no.053 chrome finish or equivalent for Wash basins, urinals etc. of approved quality conforming to IS:8931  | 5.00     | Nos.  | 500.00                           | 2500.00                    |
| 145.22 | Providing and fixing toilet paper holder C.P. brass of approved make Jaquar / Cera / Hindware or equivalent chrome finish.   | 5.00     | Nos.  | 680.00                           | 3400.00                    |
| 145.23 | Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same material with snap fitting of approved colour and make, complete in all respect.  | 5.00     | Nos.  | 140.00                           | 700.00                     |
| 145.24 | Providing and fixing PVC waste pipe 32mm or 40mm rigid with elbow, tee, reducer etc. as required to complete in all respect to wash basin etc.   | 5.00     | Nos.  | 95.00                            | 475.00                     |
| 145.25 | Providing and fixing CP Jali of approved make for traps.   | 10.00    | Nos.  | 45.00                            | 450.00                     |



*Abhishek*

SCHEDULE OF RATE (SOR)

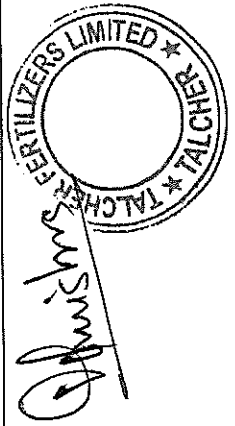
| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS     | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-----------|----------------------------------|----------------------------|
|        |  |          |           | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 145.26 | Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main : - 20 mm nominal bore  | 10.00    | Nos.      | 350.00                           | 3500.00                    |
| 145.27 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.   | 10000.00 | Per Litre | 15.00                            | 150000.00                  |
| 145.28 | Providing and construction of septic tank 2.0x0.9x2.0M (Inner Dimension) and soakpit 0.75x0.75x3.0M (Honey Comb Shaft Dimension) in all respect as per scope of work, technical specification and direction of the engineer-in-charge<br>Rate to include cost of following item:-<br>1) Excavation and backfilling<br>2) 230 thk. Brick work in cement mortar (1:6)<br>3) 100thk RCC top slab with 300 dia C.I.cover<br>3) Bedding PCC (1:2:4)<br>4) 15th Plaster in Cement mortar 1:6<br>5) Chemical resistant Paint<br>6) Supplying and Filling of material such as Gravel, Coarse aggregate, Etc and complete in all respect  | 1.00     | No.       | 90000.00                         | 90000.00                   |
| 145.29 | Providing and fixing white vitreous china flat back half stall urinal of size 580x340x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2555, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : - Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern  | 2.00     | Nos.      | 16000.00                         | 32000.00                   |
| 145.30 | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: - White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests  | 1.00     | No.       | 6150.00                          | 6150.00                    |
| 145.31 | Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.  | 2.00     | Nos.      | 200.00                           | 400.00                     |
| 145.32 | Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms   | 2.00     | Nos.      | 115.00                           | 230.00                     |
| 145.33 | Providing and fixing bevelled edge mirror of superior glass (of approved quality) of 5mm thick of size 1000 x 750 mm of Belgium Glass or equivalent, 6mm wooden ply wood, wooden beads with 3M adhesive around of specified size and Chamfered, fixing with wooden plugs with CP brass screws and cup washers etc. All complete as per the directions of engineer in-charge.   | 2.00     | Nos.      | 1500.00                          | 3000.00                    |
| 145.34 | Providing Gola 75mm x 75mm in cement concrete 1:2:4 (Cement: 2 coarse sand: 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design. - In 75 x 75 mm deep chase   | 20.00    | R.M       | 280.00                           | 5600.00                    |
| 145.35 | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : - PVC make, 100 mm inlet & 100 mm outlet (Sand cast iron S&S as per IS: 3989)   | 5.00     | Nos.      | 1725.00                          | 8625.00                    |
| 145.36 | Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.   | 5.00     | Nos.      | 965.00                           | 4825.00                    |
| 145.37 | Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour, - 25mm nominal bore, weighing not less than 62 gms.   | 5.00     | Nos.      | 125.00                           | 625.00                     |
| 145.38 | Providing and fixing PTMT stop cock of approved quality and colour - Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms  | 5.00     | Nos.      | 225.00                           | 1125.00                    |
| 146.00 | DOORS, WINDOWS AND VENTILATORS   |          |           |                                  |                            |
| 146.10 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, milled and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. Powder coated aluminium (minimum thickness of powder coating 50 micron) - For Fixed Portion - Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | 1473.00  | kg.       | 385.00                           | 567105.00                  |



*Signature*

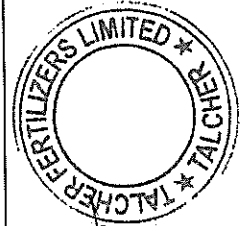
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 146.11 | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPD M rubber / neoprene gasket including necessary fittings.- Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15).   | 960.00   | kg.   | 575.00                           | 552000.00                  |
| 146.12 | Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. - Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side   | 23.00    | Sq.M. | 1150.00                          | 26450.00                   |
| 146.13 | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Including aluminium snap beading) - With float glass panes of 4.0 mm thickness   | 28.00    | Sq.M. | 1225.00                          | 34300.00                   |
| 146.14 | Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. - With brass cover plate minimum 1.25 mm thickness   | 8.00     | No.   | 3000.00                          | 24000.00                   |
| 146.15 | Providing and fixing aluminium lower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) (transparent or dyed to required colour or shade, with necessary screws etc. Complete.  | 10.00    | No.   | 150.00                           | 1500.00                    |
| 146.16 | 200x10 mm  | 10.00    | No.   | 125.00                           | 1250.00                    |
| 146.17 | 150x10 mm  | 10.00    | No.   | 100.00                           | 1000.00                    |
| 146.18 | 100x10 mm  | 15.00    | No.   | 550.00                           | 8250.00                    |
| 146.19 | Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.   | 15.00    | No.   | 85.00                            | 1275.00                    |
| 146.20 | Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. Complete.   | 7.00     | No.   | 70.00                            | 490.00                     |
| 146.21 | 125 mm   | 15.00    | No.   | 550.00                           | 8250.00                    |
| 146.22 | 100mm  | 15.00    | No.   | 550.00                           | 8250.00                    |
| 146.23 | Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 250 mm x 16 mm   | 20.00    | Sq.M. | 2350.00                          | 47000.00                   |
| 146.24 | 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails milled and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 1/2" section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. U cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. | 20.00    | Sq.M. | 2350.00                          | 47000.00                   |
| 146.25 | Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-Iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.  | 10.00    | Sq.M. | 10025.00                         | 100250.00                  |
| 146.26 | Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete   | 10.00    | No.   | 885.00                           | 8850.00                    |
| 146.27 | Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhat), including Cost of dash fasteners/ chemical fastener.  | 50.00    | No.   | 185.00                           | 9250.00                    |



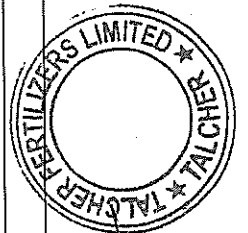
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|---|----------|-------|----------------------------------|----------------------------|
|        |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 146.28 | Centering and shuttering with 12mm thick shuttering plywood conforming to IS 4990:2011 and removal of form at all heights. Plywood will be supported on lock bars. - Suspended floors, roofs, landings, balconies and access platform.  | 50.00    | Sq.M. | 115.00                           | 5750.00                    |
| 146.29 | WATER PROOFING TREATMENT  |          |       |                                  |                            |
| 146.30 | Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre mat consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.99 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : - 3 mm thick   | 445.00   | Sq.M. | 625.00                           | 278125.00                  |
| 146.31 | Pressure grouting with the help of threaded nozzle of suitable length fixed in leaking portion of water retaining structures ( of approx 250mm thickness) and later removing and making the holes good, checking the leak proofness etc. all complete up to the satisfaction of Engineer-in-Charge. (The rate shall be inclusive of fixing nozzle in old concrete, drilling of holes of suitable size preferably by using electrically operated percussive hammer drill and fixing grouting nozzle in the holes. After nozzles are fully set , a neat cement slurry admixed with water soluble non shrink polymer/monomer or equivalent based chemical shall be injected through the nozzle with low pressure grout pumps at a pressure of about 2.0 Kg/Sq.cm. Pressure grouting material shall be of reputed make like Sika, Forsox, BASF etc. or equivalent. Comprising high flow non shrink cementitious grout)  | 250.00   | No.   | 905.00                           | 226250.00                  |
| 146.32 | Providing and laying "SHRINKKOMP- 10" or any other approved equivalent anti-shrinkage grouting in pockets, under base plates of light static equipments, structural steel columns, etc, complete in all respects as per direction of Engineer-in-Charge.  | 1.00     | Cu.M  | 57860.00                         | 57860.00                   |
| 146.33 | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCCslab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : |          |       |                                  |                            |
| 146.34 | With average thickness of 120 mm and minimum thickness at khurra as 65 mm.  | 50.00    | Sq.M. | 1575.00                          | 78750.00                   |
| 147.00 | HAND RAILING  |          |       |                                  |                            |



SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 147.10 | Providing and fixing M.S pipe hand railing (medium grade) conforming to IS-1239 consisting of top and middle horizontal rails of 40 mm dia. and 32 mm dia. nominal bore respectively, 1050 mm high upright members of 40 mm dia. nominal bore at 1500 mm maximum distance centre to centre of each member including all joints, bends, elbows, and specials as required and upright members welded or bolted to structural steel work/tee plates or welded to M.S. insert plates with M.S. lugs embedded in R.C.C. works, complete in all respects and as per direction of Engineer-in-Charge. - Two coats of chromated rubber based paint at dry film thickness of 40 microns per coat over two coats of high built zinc phosphate primer compatible to chromated rubber based paint at dry film thickness of 25 microns per coat.  | 8.00     | MT    | 147500.00                        | 1180000.00                 |
| 148.00 | HILTI WORKS  |          |       |                                  |                            |
| 148.10 | Supplying, Drilling/Cleaning hole and Injecting slow curing time, high bond stress value heavy duty HIT-RE500V3 with Rebar or HIT-V Threaded Rod with a pre-defined ratio (3:1) of resin and hardener in a soft foil pack of 330ml, 500ml. The product should be approved by ETA, ICC, CSTB, COLA, BZS with Shock approval, Seismic approval in Anchors and Rebars to use in cracked/un-cracked concrete, tested for service temperature of -40deg C to +80 deg C. Application to be designed separately for Rebars as Simply Supported Moment or Splice as per EC2/TR23 or relevant tested and accepted rebar guidelines. Anchoring with HIT-V with RE500V3 to be designed as per ETAG guidelines of post installation of anchors and TR 29, LEED certified injection adhesive for rebar fixing in wet/dry flooded holes conditions for diameters. The chemical should have service life of more than 100 years and is to be tested for water tightness. Drilling hole with double flute type drill bit/shallow drill bits to the required depth by rotary hammer drill; cleaning with brush and jet of clean air, filling resin and hardener using serrated nozzle to eliminate mixing error with standard HDE A22 battery dispenser along with piston plug and extension hose for longer depths to ensure no air bubbles are in the hole and then fixing the re-bar, conducting occasional site inspection, executing work by trained personnel and occasional supervision from the manufacturer's representative in India. The installation and the setting instructions should be strictly followed as per the manufacturer's recommendations, RE 500 V3 for rebar application must have approval for Seismic, Fatigue and Fire. Reinforcements/rebars shall be supplied separately and the payments shall be made against respective items. Item includes all necessary scaffolding required for completion of the work. | 25.00    | No.   | 550.00                           | 13750.00                   |
| 148.11 | 16 mm dia. HYSO rebars. @240mm   | 25.00    | No.   | 750.00                           | 18750.00                   |
| 148.12 | 20 mm dia. HYSO rebars. @ 300mm  |          |       |                                  |                            |
| 148.13 | Supplying, Drilling/Cleaning hole and fixing HILTI make heavy duty ETA Approved HVU2 +HAS-E Chemical Anchor of appropriate size and fixing plates subsequently. Anchor comprises of HVU2 flexible foil capsule that contains styrene free Urethane Methacrylate resin, hardener, quartz, sand/contundum and HAS-E threaded rod of minimum 5.8 steel grade conforming to IS 1367, galvanised to minimum 5 microns. The anchor must be approved for Cracked concrete and Seismic Conditions. Manufacturer should submit Anchor Design report on cracked concrete based on design loads & other parameters as provided by consultants. Chemical anchors should be designed in accordance with ECOTA-TR-029 "guidelines for anchorage of chemical anchors for use in concrete" for approval. HAS-E-R threaded rod (stainless steel; A4-70) to be used in severely corrosive environment. Plates shall be supplied separately & the payments shall be made against respective items. Fixing methodology to be followed as per manufacturers guidelines. Item includes all necessary scaffolding required for completion of the work.  |          |       |                                  |                            |
| 148.14 | Anchor size HVU2+HAS-E M16x125   | 20.00    | No.   | 1150.00                          | 23000.00                   |
| 148.15 | Anchor size HVU2+HAS-E M20x170   | 20.00    | No.   | 2250.00                          | 45000.00                   |
| 148.16 | Anchor Size HVU2+HAS-E M24x210   | 20.00    | No.   | 2950.00                          | 59000.00                   |



*(Handwritten Signature)*

SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 148.17 | Providing and wet drilling (core of RCC works of grade M 40 ), accurate and clean holes of following diameter, 500 mm depth in RCC using HILTI DD 750 Hydraulic molar unit power output of mx 11 KW, oil pressure max 170 bar 4 gear unit along with Hilti DLP32 Power pack 32 KW (Maximum operating pressure of 210 bar / 400V unit requiring 3 phase supply, current of 63 amp Working on hydraulic system.  |          |       |                                  |                            |
| 148.18 | 600mm dia - 500mm deep core  | 1.00     | No.   | 26500.00                         | 26500.00                   |
| 148.19 | 800mm dia - 500mm deep core  | 1.00     | No.   | 28500.00                         | 28500.00                   |
| 148.20 | Providing and cutting concrete M 25 grade ( Rectangle / square ) upto 750mm deep using Hilti D-LP 32/ DS-TS 32 or DS WS 20 E (electric cutting) wall saws or equivalent having diamond saws and central water cooling system for accurate and vibration free cutting. The system should be operated using digital remote control for at least 5 - 10 meter distance operation from plate of cutting. Suitable & sufficient scaffolding shall be provided separately for all work that cannot be done safely from ground or other available means of safe support and the payments for this shall be made against respective items. | 2.00     | RM    | 11800.00                         | 23600.00                   |
| 149.00 | SLUICE GATE  |          |       |                                  |                            |
| 149.10 | Providing & fixing in R.C.C. work, Using HILTI chemical fasteners Single Face sluice gate, Class- 1 ( Rising Type) of 1280 x 1600 mm (approx.) size, conforming to IS : 3042 along with hand wheels, spindles, guide rails& all other fitting accessories required, complete as per directions of Engineer-in-Charge.  | 6.00     | No.   | 375000.00                        | 2250000.00                 |
| 150.00 | DISMANTLING & DEMOLISHING  |          |       |                                  |                            |
| 150.10 | Demolishing plain cement concrete under floor including disposal of material outside Building premises as directed by Engineer-in-charge.  | 70.00    | Cum   | 2250.00                          | 157500.00                  |
| 150.11 | Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish as directed by Engineer-in-charge.   | 100.00   | Sq.M  | 45.00                            | 4500.00                    |
| 150.12 | Dismantling of existing tiles in floor and wall laid in cement mortar including stacking of serviceable materials as per instruction of Engineer-in charge.  | 100.00   | Sq.M  | 70.00                            | 7000.00                    |
| 150.13 | Dismantling of existing G.I. water supply pipes with all fittings / fixtures / clamps and stacking of serviceable materials as per instruction of Engineer-in charge.  | 100.00   | R.M.  | 30.00                            | 3000.00                    |
| 150.14 | Dismantling of C.I. / Ductile Iron pipes (waste water & soil water) with fittings/fixtures and clamps including traps and stacking of serviceable materials as per instruction of Engineer-in charge.  | 100.00   | R.M.  | 70.00                            | 7000.00                    |
| 150.15 | Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 500 metres lead : - 150mm dia pipe  | 100.00   | R.M.  | 75.00                            | 7500.00                    |
| 150.16 | Dismantling doors, windows and cleretory windows (steel or wood) shutter including chowkhalas, architravs, holdfasts etc. complete and stacking within 500 m lead:   |          |       |                                  |                            |
| 150.17 | Cf area 3 Sq.m. and below  | 50.00    | No.   | 450.00                           | 22500.00                   |
| 150.18 | Cf area beyond 3 Sq.m.   | 50.00    | No.   | 600.00                           | 30000.00                   |
| 150.19 | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 500 metres lead as per direction of Engineer-in-charge. - In cement mortar   | 123.00   | Cum   | 1950.00                          | 239850.00                  |
| 150.20 | Demolishing water proofing in terracing and disposal of material outside Plant boundary as per direction of Engineer-in-charge.  | 479.00   | Cum   | 550.00                           | 263450.00                  |
| 150.21 | Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 500 metres lead as per direction of Engineer-in-charge.   | 218.00   | Kg.   | 60.00                            | 13080.00                   |
| 150.22 | Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 500 meters lead as directed by Engineer-in-charge.  | 4.00     | Sq.M  | 65.00                            | 260.00                     |



*D. Mishra*

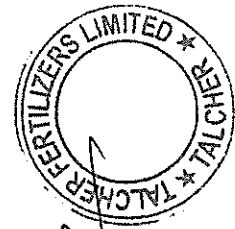
## SCHEDULE OF RATE (SOR)

| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 150.23 | Demolishing/ dismantling and removing the scraps of existing MS sluice gate along with hand wheels, spindles, guide rails & all other accessories and fittings and stacking the serviceable materials at a place as desired by Engineer-in-charge and Disposal of un-serviceable materials beyond a lead of 500 m.   | 2.00     | No.   | 2825.00                          | 5650.00                    |
| 150.24 | Taking out cinders and other filling materials, drying it and backfilling it in position in sunken floor of toilet.  | 20.00    | CuM   | 1125.00                          | 22500.00                   |
| 150.25 | Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of un-serviceable material within 500 metres lead as per direction of Engineer - in- charge.   | 147.00   | CuM   | 3125.00                          | 459375.00                  |
| 150.26 | Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 500 metres lead of.   | 50.00    | Sq.M  | 150.00                           | 7500.00                    |
| 150.27 | G.S. Sheet   | 28.00    | Sq.M  | 70.00                            | 1960.00                    |
| 150.28 | Asbestos cement sheet  |          |       |                                  |                            |
| 151.00 | MISCELLANEOUS  |          |       |                                  |                            |
| 151.10 | Cleaning jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level, surface dressing of the ground including removing in-equalities not exceeding 15 cm deep and removal of rubbish lead up to a distance of 500 m (lift up to 1.5 m), outside the periphery of the area cleared.   | 100.00   | Sq.M  | 50.00                            | 5000.00                    |
| 151.11 | Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) - Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (cement : 2 coarse sand) to the full depth of the hole : - With Chlorpyrifos/Landane E.C. 20% with 1% concentration | 100.00   | R.M   | 43.00                            | 4300.00                    |
| 151.12 | Disposal of building rubbish / maba / similar un-serviceable, dismantled or waste materials or vegetation, grass, brush wood, trees and saplings of girth up to 30 cm by mechanical means, including loading, transporting, unloading to municipal approved dumping ground or as approved by Engineer-in-charge, beyond 500 m initial lead, for lead distance upto 5 km including all lifts involved.                                | 600.00   | CuM   | 240.00                           | 144000.00                  |
| 151.13 | Same as item No. 151.12, but for lead distance up to 5-10 km   | 300.00   | CuM   | 485.00                           | 145500.00                  |
| 151.14 | Same as item No. 151.12, but for lead distance up to 10-20 km  | 300.00   | CuM   | 685.00                           | 205500.00                  |
| 151.15 | Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. Complete.  |          |       |                                  |                            |
| 151.16 | 450 mm dia. R.C.C. Pipe (Laying by manual/ mechanical means)   | 100.00   | R.M.  | 2550.00                          | 255000.00                  |
| 151.17 | 600 mm dia. R.C.C. Pipe (Laying by manual/ mechanical means)   | 100.00   | R.M.  | 3250.00                          | 325000.00                  |
| 151.18 | 900 mm dia. R.C.C. Pipe (Laying by manual/ mechanical means)   | 100.00   | R.M.  | 5150.00                          | 515000.00                  |
| 151.19 | 1200 mm dia. R.C.C. Pipe (Laying by manual/ mechanical means)  | 100.00   | R.M.  | 8650.00                          | 865000.00                  |



## SCHEDULE OF RATE (SOR)

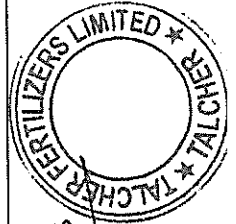
| Sl.No  | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|--------|--|----------|-------|----------------------------------|----------------------------|
|        |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 151.20 | Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. Impet washers or with G.I. Impet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. - 1.00 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>  | 500.00   | Sq.M  | 1415.00                          | 707500.00                  |
| 151.21 | Providing 300 mm to 500 mm thick Mechanically Stabilised Mix (MSM) layer in foundation or under floor at a depth upto 2.0 m below finished ground level in layers not exceeding 150 mm in depth, each consisting of 60% graded stone aggregate of size 40 mm and down, 25% medium to coarse sand and 15% moorum well mixed and compacted to 95% modified proctor density in all complete as per direction of Engineer-in-charge. - Consolidation by hand / mechanical rammers  | 25.00    | CuM   | 575.00                           | 14375.00                   |
| 151.22 | Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline-chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-in-Charge.   |          |       |                                  |                            |
| 151.23 | Bars upto 12 mm diameter   | 50.00    | Metre | 1065.00                          | 53250.00                   |
| 151.24 | Bars above 12 mm diameter  | 50.00    | Metre | 350.00                           | 17500.00                   |
| 151.25 | Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-in-Charge   |          |       |                                  |                            |
| 151.26 | 75mm average thickness   | 100.00   | Sq.M  | 255.00                           | 25500.00                   |
| 151.27 | 50mm average thickness   | 100.00   | Sq.M  | 155.00                           | 15500.00                   |
| 151.28 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-in-Charge. - Upto and including 12mm dia.  | 100.00   | Nb.   | 145.00                           | 14500.00                   |
| 151.29 | Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-in-charge complete in all respect.  |          |       |                                  |                            |
| 151.30 | SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer  | 10.00    | Sq.M  | 435.00                           | 4350.00                    |
| 151.31 | Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make  | 50.00    | Sq.M  | 365.00                           | 18250.00                   |
| 151.32 | Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement, 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.<br>Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2). - 12 mm average thickness. | 50.00    | Sq.M  | 635.00                           | 31750.00                   |





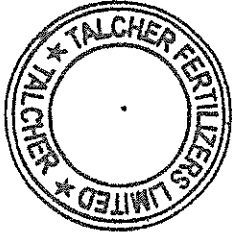
## SCHEDULE OF RATE (SOR)

| Sl.No                                       | Description of Work / Item(s)  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---|--|----------|-------|----------------------------------|----------------------------|
|   |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 151.33                                      | Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness.<br>Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plastisizer for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)   | 100.00   | Sq.M  | 935.00                           | 93500.00                   |
| 151.34                                      | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum  | 100.00   | Sq.M  | 635.00                           | 63500.00                   |
| 151.35                                      | 75mm thick in Grade M 25 with cement content not less than 330 kg per cum  |          |       |                                  |                            |
| 151.36                                      | Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member.<br>Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plastisizer for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)  |          |       |                                  |                            |
| 151.37                                      | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum  | 50.00    | Sq.M  | 935.00                           | 46750.00                   |
| 151.38                                      | 75mm thick in Grade M 25 with cement content not less than 330 kg per cum  | 50.00    | Sq.M  | 635.00                           | 31750.00                   |
| 151.39                                      | Providing and inserting 12mm dia galvanized steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.  | 100.00   | No.   | 450.00                           | 45000.00                   |
| 151.40                                      | Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on later locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. |          |       |                                  |                            |
| 151.41                                      | 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.  | 50.00    | Sq.M  | 1350.00                          | 67500.00                   |
| 151.42                                      | Providing & Laying of Pebbles (20mm to 50mm) round in shape of good quality, free form organic material sulphates or any deleterious material.   | 100.00   | Cu.M  | 1091.31                          | 109130.54                  |
| TOTAL CONTRACT AMOUNT (excluding GST) (INR) |  |          |       |                                  | 686622410.00               |
| GST @ 18% (INR)                             |  |          |       |                                  | 123592034.00               |



| SCHEDULE OF RATE (SOR) |                               |                                  |       |   |  |
|------------------------|-------------------------------|----------------------------------|-------|---|--|
| S/NO                   | Description of Work / Item(s) | RATE AND AMOUNT IN INDIAN RUPEES |       | TOTAL AMOUNT EXCLUDING GST                  |  |
|                        |                               | QUANTITY                         | UNITS | UNIT PRICE                                  |  |
|                        |                               |                                  |       | TOTAL CONTRACT AMOUNT (including GST) (INR) |  |
|                        |                               |                                  |       | 810214444.00                                |  |

*[Handwritten Signature]*

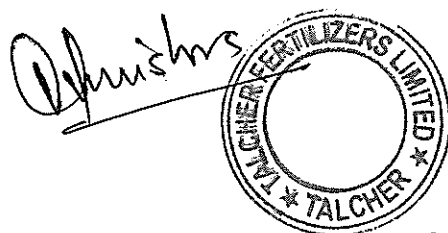


**ANNEXURE-D**  
**LIST OF AHR ITEMS**

## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

## LIST OF AHR ITEMS

| Sl. No. | ITEM DESCRIPTION  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|---|----------|-------|----------------------------------|----------------------------|
|         |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 1       | PART A: SUPPLY & ERECTION OF MECHANICALS WORKS  |          |       |                                  |                            |
| 6       | INSTALLATION OF PIPELINE INCLUDING SUPPLY OF CASING PIPE IN CROSSING BY HDD/AUGER BORING  |          |       |                                  |                            |
| 6.1     | Installation of carrier pipes by HDD/AUGER BORING method with/without Casing pipe by HDD/AUGER BORING for road,highway & Railway crossings wherever required in all types of soils and terrain, including all associated works, including supply of all Contractor supplied materials viz. supply of Casing Pipe - IS-3589 ,10.0MM THK material with Collar Epoxy coated(Externally). Materials for casing vents and drains etc, including supply of all other materials, equipment consumables, manpower, welding including visual inspection of all weld joints, testing, installation of Casing Pipe, casing insulators, end seals, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Engineer -in -Charge and provisions of contract document. Direct heat shrinkable sleeves shall be applied for joint coating in case of HDD without casing.<br>Details of Crossing by HDD/AUGER BORING<br>Crossings at various locations as decided by EIC at site as per concerned authority requirement. |          |       |                                  |                            |
| 6.11    | Line pipe detail (36" Carrier pipe) 3LPE COATED PIPES ERW/SAW,ASTM API 5L GR.B BE,SCH XS or equivalent ERW 3LPE Coated pipe with 42" Casing Pipe -IS-3589 ,10.0MM THK material with Collar Epoxy coated(Externally) by HDD/AUGER BORING (Road /highway Crossing)  | 250      | Meter | 15500                            | 3875000.00                 |
| 6.17    | Note:-  |          |       |                                  |                            |
| 6.18    | Crossing width may vary as per site condition. Tenderer are advised to visit site for actual assessment of extent of crossing. Actual string length for HDD/AUGER BORING shall be as per design calculations so that pipe is not under stress as permitted by codes/ specifications. However final length of string & cover from top of pipe shall be decided by concerned Authority/ Engineer-in-charge.   |          |       |                                  |                            |
| 6.19    | Payment for the length of final tied-in carrier pipeline string with mainline laid by HDD/AUGER BORING method are inclusive in the above item rate and no separate payment shall be made under other item mentioned elsewhere.  |          |       |                                  |                            |
| 6.2     | Installation of Casing Pipe, Casing insulators , casing end seals ,casing vents and drains etc are inclusive in above item rate. Payment for Supply of casing pipes shall be made under item mentioned elsewhere in SOR.  |          |       |                                  |                            |
| 6.21    | Quantities of above crossings indicated are tentative. The widths indicated are not for any single crossings. This shall be as per requirement at site for crossing at different locations.   |          |       |                                  |                            |
| 7       | ANY OTHER UNSPECIFIED CASED CROSSING BY BORING / OPEN CUT METHOD FOR ROAD CROSSING  |          |       |                                  |                            |



## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

## LIST OF AHR ITEMS

| Sl. No. | ITEM DESCRIPTION   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|--|----------|-------|----------------------------------|----------------------------|
|         |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 7.1     | By Boring - Complete work of the other road crossings (between the limits as defined at site and decided by Engineer-in-charge) including supply, handling, loading, transportation, unloading to Contractor's own stock yard/work site of casing pipe of size as specified, duly coal tar epoxy coated of minimum 300 micron confirming to IS:3589 or equivalent ERW pipe, casing insulators and casing end seals as per enclosed specification/ drawings, materials for casing vents and drain assembly etc. including supply of all other materials, equipments, consumables, manpower, welding including visual inspection of all weld joints, installation of casing insulators, end seals, vents and drain - off pipes for steel casing, backfilling and restoration as original of the facility crossed and performing all works as per drawings, specifications and instructions of Engineer -in -Charge and provisions of contract document |          |       |                                  |                            |
| 7.11    | 42" Casing Pipe -IS-3589 ,10.0MM THK material with Coltar Epoxy coated(Externally) (for36" NB Pipeline) Casing pipe installation by Open Cut/jacking/ boring method.   | 70       | Meter | 8500                             | 595000.00                  |
| 7.12    | Note:-   |          |       |                                  |                            |
| 7.13    | Widths of above crossings indicated are tentative. The widths indicated are not for any single crossings. This shall be as per requirement at site for crossing at different locations.  |          |       |                                  |                            |
| 7.2     | Payment for the lengths of carrier pipeline string with mainline laid by above method is Exclusive in the above item rate and separate payment shall be made under SOR item no 1.1 &1.2.   |          |       |                                  |                            |
| 12      | INSTALLATION OF VALVES etc.  |          |       |                                  |                            |
| 12.1    | 36" BUTTERFLY VALVE  | 4        | Nos   | 15000                            | 60000.00                   |
| 12.11   | 18" CHECK VALVE  | 4        | Nos   | 13500                            | 54000.00                   |
| 12.12   | 18" GATE VALVE   | 4        | Nos   | 13000                            | 52000.00                   |
| 12.13   | 6" KINETIC AIR VALVE, 150#   | 4        | Nos   | 8500                             | 34000.00                   |
| 12.14   | 1" GATE VALVE  | 50       | Nos   | 3500                             | 175000.00                  |
| 12.15   | 1" GLOB VALVE  | 50       | Nos   | 3500                             | 175000.00                  |
| 12.16   | 3/4" GLOB VALVE  | 4        | Nos   | 2500                             | 10000.00                   |
| 12.17   | 3/4" GATE VALVE  | 9        | Nos   | 2500                             | 22500.00                   |
| 12.18   | Note:The quantities mentioned above are tentative  |          |       |                                  |                            |
| 18      | SUPPLY OF PIPES/PIPELINES, FITTINGS, FLANGES & VALVES etc  |          |       |                                  |                            |
| 18.1    | Complete works of supply of pipes for (below mentioned length), flanges, fittings & valves for underground/Above Ground installation including all taxes, duties (EXCEP GST) transportation and inspection charges but not limited to, the following items in accordance with, relevant specifications & drawings indicated in job specification under this technical documents and instructions of Engineer-in-charge and as per all provisions of the CONTRACT.  |          |       |                                  |                            |

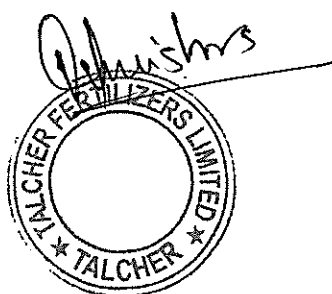


001267

## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

## LIST OF AHR ITEMS

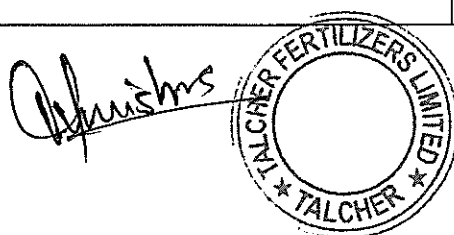
| SI. No. | ITEM DESCRIPTION   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|--|----------|-------|----------------------------------|----------------------------|
|         |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 18.11   | Handling including lifting, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site for field fabrication and erection for all piping items supplied by Contractor.  |          |       |                                  |                            |
| 19      | PIPES  |          |       |                                  |                            |
| 19.14   | 4" SMLS PIPE,BE ,API 5L GR.B,SCH 40  | 1        | Mtr.  | 5000                             | 5000.00                    |
| 19.15   | 3" SMLS PIPE,BE ,API 5L GR.B,SCH 40  | 1        | Mtr.  | 4500                             | 4500.00                    |
| 21      | CAP  |          |       |                                  |                            |
| 21.12   | 1.0 ,CAP (THD) -ASME B16.11, A105, 3000#   | 100      | Nos   | 150                              | 15000.00                   |
| 23      | ELBOW  |          |       |                                  |                            |
| 23.21   | 6" ELBOW 45 DEG ,1.5D .-ASME B16.9 SCH 40 ASTM A234 WPB-SMLS,BW6" ELBOW 45 DEG ,1.5D .-ASME B16.9 SCH 40 ASTM A234 WPB-SMLS,BW   | 5        | Nos   | 3000                             | 15000.00                   |
| 26      | COUPLING   |          |       |                                  |                            |
| 26.1    | 1/2",ASME B16.11,CS ASTM A105,3000#,THD  | 5        | Nos   | 550                              | 2750.00                    |
| 29      | GASKET   |          |       |                                  |                            |
| 29.11   | 18"-GASKET(SPRL-WND RF), TP304 SS WDG,GPH FLR;TP304 SS INR RNG;CS OTR RNG, ASME B16.20-150#  | 20       | Nos   | 1550                             | 31000.00                   |
| 53      | PART C   |          |       |                                  |                            |
| 53.1    | SCHEDULE OF RATES FOR ELECTRICAL SUPPLY & INSTALLATION WORKS   |          |       |                                  |                            |
| 53.11   | SUPPLY OF ELECTRICAL ITEMS   |          |       |                                  |                            |
| 58      | CABLE LUGS   |          |       |                                  |                            |
| 58.1    | Supply of Bi-metallic crimping type lugs of following sizes for termination of cables.   |          |       |                                  |                            |
| 58.21   | 300 sq. mm   | 30       | Nos.  | 450                              | 13500.00                   |
| 96      | ERECTION/INSTALLATION OF ELECTRICAL ITEMS  |          |       |                                  |                            |
| 115     | PLANT LIGHTING POLES   |          |       |                                  |                            |
| 115.1   | Erection and commissioning of following hot dipped galvanised mild steel tubular swaged lighting poles including transportation of required items from owner's issue point to site and installation of poles, junction box, supply of requisite cable glands and tinned copper lugs, cable termination, necessary hardware required for excavation, providing concrete foundation ( ratio of cement : sand : stone chips = 1:2:4) for ground installation, disposal of surplus earth within 30 m lead, earthing and painting with all labour to make installation complete in all respect as per instruction and directions of engineer-in-charge. |          |       |                                  |                            |
| 115.11  | 9m. high ground mounted poles (Single Arm)   | 2        | Nos.  | 9500                             | 19000.00                   |
| 115.12  | 5m. high ground mounted poles (Single Arm)   | 2        | Nos.  | 8800                             | 17600.00                   |



## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

## LIST OF AHR ITEMS

| Sl. No. | ITEM DESCRIPTION   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|--|----------|-------|----------------------------------|----------------------------|
|         |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 117     | FABRICATION OF STEEL STRUCTURE   |          |       |                                  |                            |
| 117.1   | Fabrication and installation of MS frame supports and brackets for various equipment base frame, miscellaneous electrical equipment support, made of channels, angles, flats etc. of different sections including bolting, welding, riveting, supply of necessary anchor bolts and grouting etc. including 2 coats of zinc rich anti rust epoxy primer and 2 finished coats of epoxy paint including breaking wall, floor etc. and making good the same with all labour and consumable materials to complete installation in all respect as per approved drawings, specifications and directions of engineer-in-charge | 2.5      | MT    | 75500                            | 188750.00                  |
| 117.11  | Fabrication and Installation of 8mm thick chequered plate in flooring, steps, covers over cable trenches in switch board room, painting with one coats of bitumen paint in the 50% thinner with two coats of black bitumen paints including supply of all consumables and paints.  | 0.5      | MT    | 75500                            | 37750.00                   |
| 117.12  | Fabrication & installation of 2 mm thick Al sheet for rain protective hood for equipment e.g. motors, switch sockets, junction boxes etc.  | 3        | m2    | 1500                             | 4500.00                    |
| 118     | G.I. PIPES / HDPE PIPES  |          |       |                                  |                            |
| 118.14  | Same as above but for brick walls.   | 1        | m3    | 4500                             | 4500.00                    |
| 124     | MISCELLANEOUS  |          |       |                                  |                            |
| 124.1   | Fixing of Caution boards / dangers boards written in ENGLISH & HINDI of the following voltages.  |          |       |                                  |                            |
| 124.11  | 33 KV  | 2        | Nos.  | 550                              | 1100.00                    |
| 124.12  | 3.3 KV   | 2        | Nos.  | 550                              | 1100.00                    |
| 124.13  | 415 Volts  | 5        | Nos.  | 550                              | 2750.00                    |
| 124.14  | Fixing of shock treatment chart written in English and Local language duly framed and approved by engineer-in-charge.  | 5        | Nos.  | 550                              | 2750.00                    |
| 124.15  | Fixing of Do & Don't chart as per Indian Electricity Rules in Aluminum frame with glass  | 2        | Nos.  | 550                              | 1100.00                    |
| 124.16  | Fixing of S/S Single Line Diagram in Aluminum frame with glass.  | 1        | No.   | 550                              | 550.00                     |
| 124.17  | Installation of portable CO2 type fire extinguisher (4.5 liter capacity).  | 4        | Nos.  | 550                              | 2200.00                    |
| 124.19  | Fixing of CPR (CARDIO PULMONARY RESUSCITATION) Charts.   | 2        | Nos.  | 550                              | 1100.00                    |
| 124.2   | Fixing of High Voltage danger signage (Skull & bones).   | 10       | Nos.  | 550                              | 5500.00                    |
| 124.21  | Fixing of Exit Route / Emergency Exit Route Signage.   | 2        | Nos.  | 550                              | 1100.00                    |

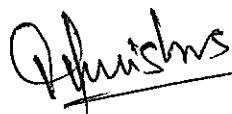
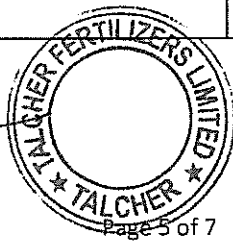


001265

## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

## LIST OF AHR ITEMS

| Sl. No. | ITEM DESCRIPTION   | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|--|----------|-------|----------------------------------|----------------------------|
|         |  |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 124.22  | Fixing of synthetic insulating mats in front of various panel boards as per directions of engineer-in-charge including supply of all consumables for fixing.   |          |       |                                  |                            |
| 124.23  | 33KV Voltage grade having nominal thickness of 3.0 mm $\pm$ 10% Class C  | 6        | Mtrs. | 550                              | 3300.00                    |
| 124.24  | Up to 3.3KV Voltage grade having nominal thickness of 2.0mm $\pm$ 10% Class A  | 40       | Mtrs. | 550                              | 22000.00                   |
| 125     | EXCAVATION AND BACK FILLING  |          |       |                                  |                            |
| 125.11  | Back filling with excavated earth in trench including consolidating each deposited layer by ramming, dressing etc.   | 100      | M3    | 450                              | 45000.00                   |
| 127     | BRICKS   |          |       |                                  |                            |
| 127.1   | Spreading of approved first class bricks of 4 inch thickness in cable trenches for cable protection including all labour and materials to make installation complete in all respect.   | 3500     | Nos.  | 8                                | 28000.00                   |
| 133     | PART D   |          |       |                                  |                            |
| 134     | SCHEDULE OF RATES FOR CIVIL WORKS  |          |       |                                  |                            |
| 144     | FLOORING   |          |       |                                  |                            |
| 144.12  | Providing and laying 1st quality ceramic glazed tiles 300mm x 300mm conforming to IS: 15622 of minimum thickness 5mm of approved make like KAJARIA, NITCO, ORIENT, SOMANY or equivalent make on walls in all colours, shade and design as approved by E.I.C. over 12mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3Kg per Sq.m. including pointing in white cement mixed with pigment of matching shade complete. | 100      | Sq.M  | 1800                             | 180000.00                  |
| 145     | SANITARY INSTALLATION  |          |       |                                  |                            |
| 145.13  | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, Single socketed pipes.   |          |       |                                  |                            |
| 145.14  | 75 mm dia.   | 100      | R.M.  | 450                              | 45000.00                   |
| 145.15  | 100 mm dia.  | 100      | R.M.  | 550                              | 55000.00                   |
| 146     | DOORS, WINDOWS AND VENTILATORS   |          |       |                                  |                            |
| 146.15  | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. Complete.  |          |       |                                  |                            |
| 146.16  | 200x10 mm  | 10       | No.   | 150                              | 1500.00                    |
| 146.17  | 150x10 mm  | 10       | No.   | 125                              | 1250.00                    |
| 146.18  | 100x10 mm  | 10       | No.   | 100                              | 1000.00                    |



## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

## LIST OF AHR ITEMS

| Sl. No. | ITEM DESCRIPTION  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|---|----------|-------|----------------------------------|----------------------------|
|         |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 146.23  | Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 250 mm x 16 mm  | 15       | No.   | 550                              | 8250.00                    |
| 151     | MISCELLANEOUS   |          |       |                                  |                            |
| 151.22  | Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.  |          |       |                                  |                            |
| 151.23  | Bars upto 12 mm diameter  | 50       | Metre | 1065                             | 53250.00                   |
| 151.24  | Bars above 12 mm diameter   | 50       | Metre | 350                              | 17500.00                   |
| 151.29  | Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.   |          |       |                                  |                            |
| 151.3   | SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer   | 10       | Sq.M  | 435                              | 4350.00                    |
| 151.32  | Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.<br>Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2). - 12 mm average thickness.  | 50       | Sq.M  | 635                              | 31750.00                   |
| 151.33  | Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness.<br>Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super- Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument) |          |       |                                  |                            |

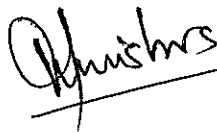
*Shukhs*



## ANNEXTURE 'D' TO DLOA No. TFL/ TALCHER/C&amp;P/RAW WATER SUPPLY/LOA-029/23-24 dated 16.03.2024

LIST OF AHR ITEMS

| Sl. No. | ITEM DESCRIPTION  | QUANTITY | UNITS | RATE AND AMOUNT IN INDIAN RUPEES |                            |
|---------|---|----------|-------|----------------------------------|----------------------------|
|         |   |          |       | UNIT PRICE                       | TOTAL AMOUNT EXCLUDING GST |
| 151.34  | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum   | 100      | Sq.M  | 935                              | 93500.00                   |
| 151.36  | <p>Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member.</p> <p>Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)</p> |          |       |                                  |                            |
| 151.37  | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum   | 50       | Sq.M  | 935                              | 46750.00                   |
| 151.39  | Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.   | 100      | No.   | 450                              | 45000.00                   |




001262

**ANNEXURE-E**  
**PRE-SIGNED INTEGRITY PACT**  
**AGREEMENT**

## INTEGRITY PACT

## INTRODUCTION:

TFL as one of its endeavour to maintain and foster most ethical and corruption free business environment, have decided to adopt the Integrity Pact, a tool developed by the Transparency International, to ensure that all activities and transactions between the Company (TFL) and its Counterparties (Bidders, Contractors, Vendors, Suppliers, Service Providers/Consultants etc.) are handled in a fair and transparent manner, completely free of corruption.

Considering the above, the details mentioned at attached Annexure-1 are applicable as stated in Instruction to Bidders of Bid Document in addition to the existing stipulation regarding Corrupt and Fraudulent Practices.

The attached copy of the Integrity Pact at Annexure - 2 shall be included in the Bid submitted by the bidder (to be executed by the bidder for all tenders of value Rs. 1 (One) crore and above). In case a bidder does not sign the Integrity Pact, his bid shall be liable for rejection.



Bidder is required to sign the Integrity Pact with TFL as per format & terms and conditions enclosed with tender. In case a bidder does not sign the Integrity Pact, his bid shall be liable for rejection.


## I COMMITMENTS AND OBLIGATIONS OF THE "COUNTERPARTY"

- a) The Counterparty, directly or indirectly (through agent, consultant, advisor, etc.), shall not pay any bribe/ influence or give undue/ unlawful benefit to anyone to gain undue advantage in dealing with TFL.
- b) The Counterparty will not engage in collusion of any kind including price fixation etc. with other Counterparts.
- c) The counterparty will not pass TFL's confidential information to any third party unless specifically authorized by TFL in writing.
- d) The Counterparties shall promote and observe best ethical practices within their respective organizations.
- e) The Counterparty shall inform the Independent External Monitor.
  - i) If it received any demand, directly or indirectly, for a bribe/ favour or any illegal gratification/ payment / benefit;
  - ii) If it comes to know of any unethical or illegal payment / benefit;
  - iii) If it makes any payment to any TFL associate.
- f) The Counterparty shall not make any false or misleading allegations against TFL or its associates.

## II VIOLATIONS & CONSEQUENCES:

- a) If a Counterparty commits a violation of its Commitments and Obligations under the Integrity Pact Programme during bidding process, their entire Earnest Money Deposit/ Bid Security, would be forfeited and in addition, action shall be taken as per "Procedure for action in case Corrupt /Fraudulent/ Collusive/Coercive Practices"
- b) In case of violation of the Integrity pact by Counterparty after award of the Contract, TFL shall be entitled to terminate the Contract. Further, TFL would forfeit the security deposits/ Contract Performance Bank Guarantee and in addition, action shall be taken as per "Procedure for action in case Corrupt /Fraudulent/ Collusive/Coercive Practices"

*Prakash*

A circular stamp with the text "TALCHER FERTILIZERS LIMITED" around the perimeter and "TALCHER" in the center. The stamp is slightly faded and has a double-line border.

001259

**INDEPENDENT EXTERNAL MONITORS (IEMS)**

Presently the panel consisting of the following Independent External Monitors (IEMs) have been appointed by TFL, in terms of Integrity Pact (IP) which forms part of TFL Tenders / Contracts.

- i) Shri Sanjeev Prasad Narain Singh (Email ID: [spns108@gmail.com](mailto:spns108@gmail.com))
- ii) Shri Anil Kumar Sharma (Email ID: [aksharma1512@gmail.com](mailto:aksharma1512@gmail.com))

This panel is authorised to examine / consider all references made to it under this tender/ contract. "The bidder(s), in case of any dispute(s) / complaint(s) pertaining to this tender falling under provisions of Integrity Pact may raise the same either directly with the IEMs on the panel viz Shri Sanjeev Prasad Narain Singh (Email ID: [spns108@gmail.com](mailto:spns108@gmail.com)) & Shri Anil Kumar Sharma (Email ID: [aksharma1512@gmail.com](mailto:aksharma1512@gmail.com)) or with CC to them through their Nodal Officer - Sh. Vivek Mishra, Sr. Mgr. (C&P) – Email: [vivekmishra@tflonline.co.in](mailto:vivekmishra@tflonline.co.in), Address: Talcher Fertilizers Limited, Administrative Building, Post – Vikrampur, Dist. Angul, Odisha - 759106. On receipt of such complaints/representations, Nodal Officer shall coordinate with IEM Panel and TFL authorities concerned for their disposal as per extant guidelines."

*Vivek Mishra*



## ANNEXURE-2

INTEGRITY PACT

(To be executed on plain paper)

Between Talcher Fertilizers Limited (TFL) [here-in-after referred to as "Principal"].

AND

\_\_\_\_\_ (here-in-after referred to as "The Bidder/ Contractor").

(Principal and the Bidder / Contractor are here-in-after are referred to individually as "Party" or collectively as "Parties").

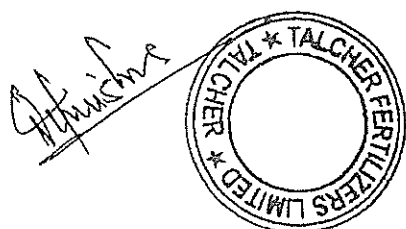
PREAMBLE

The Principal intends to award under laid down organizational procedures, contract/s for \_\_\_\_\_. The Principal values full compliance with all relevant laws of land rules, regulations, and economic use of resources and of fairness /transparency in its relations with its Bidder (s) and/or Contractor (s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following Principles:-
  - i) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or for a third person, any material or immaterial benefit which the person is not legally entitled to.
  - ii) The Principal will, during the tender process treat all Bidder(s) with equity and reasons. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.



- iii) The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC) / Prevention of Corruption Act (PC Act), or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers and in addition can initiate disciplinary actions.

**Section 2 – Commitments of the Bidder (s)/Contractor (s)**

1. The Bidder(s) / Contractor(s) commits themselves to take all measures necessary to prevent corruption. The Bidder(s) / Contractor(s) commits themselves to observe the following principles during participation in the tender process and during the contract execution:
- i) The Bidder (s) / Contractor (s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- ii) The Bidder (s) / Contractor (s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other action to restrict competitiveness or to introduce cartelisation in the bidding process.
- iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant IPC/PC Act; further, the Bidder (s) / Contractor (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- iv) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
- v) The Bidder (s) / Contractor (s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents,

*Prishma*





brokers or any other intermediaries in connection with the award of the contract.

- vi) Bidder(s) / Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
2. The Bidder(s)/ Contractor(s) shall not instigate third person to commit offences outlined above or be an accessory to such offences.

**Section 3 – Disqualification from tender process and exclusion from future contracts**

If the Bidder (s) / Contractor (s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder (s) / Contractor (s) from the tender process or take action as per provisions of "Procedure for action in case Corrupt /Fraudulent/ Collusive/Coercive Practices".

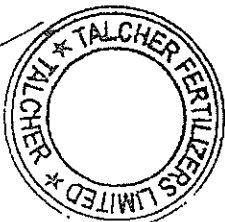
**Section 4 – Compensation for Damages**

1. If the Principal has disqualified the Bidder (s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit / Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equal to the Contract Value or the amount equivalent to Performance Bank Guarantee.

**Section 5 – Previous transgression**

1. The Bidder declares that no previous transgression occurred in the last three years, with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or actions can be taken as per provisions of "Procedure for action in case Corrupt /Fraudulent/ Collusive/Coercive Practices"

*Amish*



**Section 6 – Equal treatment to all Bidders / Contractors / Subcontractors**

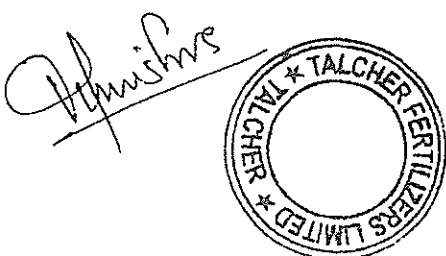
1. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor. It is to be ensured by him that all sub-contractors also sign the IP.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

**Section 7 – Criminal charges against violating Bidder (s) / Contractor (s) / Sub-contractor (s)**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

**Section 8 –Independent External Monitor / Monitors**

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all documents / records pertaining to the contract for which a complaint or issue is raised before them, as and when warranted. However, the documents / records / information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed. It will be obligatory for him/her to treat the information and documents of the Bidders / Contractors as confidential. He / she reports to MD, TFL.
3. The Bidder (s)/ Contractor (s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an



impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

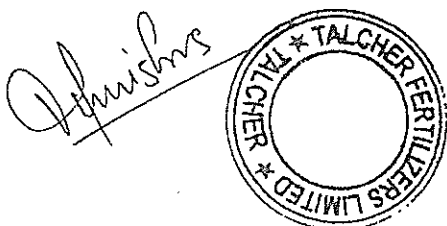
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or to take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to MD, TFL within 30 days from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to MD, TFL, a substantiated suspicion of an offence under relevant IPC/PC Act, and MD, TFL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, then, only in case of very serious issue having a specific verifiable Vigilance angle, the matter should be reported directly to the Central Vigilance Commission.
8. The word 'Monitor' would include both singular and plural.
9. In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.
10. After award of contract, the IEMs shall look into any issue relating to execution of contract, if specifically raised before them. As an illustrative example, if a contractor who has been awarded the contract, during the execution of contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.

#### Section 9 – Pact Duration

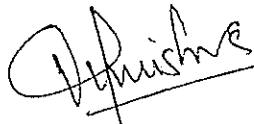
This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded. Any violation to the same would entail disqualification of the bidders and exclusion from future business dealing.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by MD, TFL.

#### Section 10 – Miscellaneous provisions



1. This agreement is subject to Indian Law. Place of performance and exclusive jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices, if any, need to be made in writing. Side agreements have not been made.
3. If the Contractor/Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members.
4. Should one or several of the provisions of this agreement turn out to be invalid, the remainder of this agreement shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions in such a case.
5. Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.
6. In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in Integrity Pact will prevail.



Vivek Mishra  
Senior Manager (C&P)  
Talcher Fertilizers Limited  
Talcher, Odisha

(For & on Behalf of Principal)


(Office Seal)

(For & on Behalf of Bidder/Contractor)

(Office Seal)

Place -----  
Date -----

Witness 1:  
(Sign, Name & Address)  
[FOR PRINCIPAL]



B. SUNIL PATRO, DY. MGR.  
TFL, TALCHER, ANGUL, ODISHA

Witness 2:  
(Sign, Name & Address)  
[FOR BIDDER / CONTRACTOR]

.....  
.....  
.....

001252

**ANNEXURE-F**

**BANK DETAILS OF M/S. G L  
GOLDEN, GURUGRAM**

001251



G L Golden

F-13

E-Banking Mandate Form

(To be issued on vendors letter head)

1. Vendor/customer Name : M/s G L GOLDEN
2. Vendor/customer Code :
3. Vendor /customer Address : Plot No. 145, Sector-31, Gurugram  
-122002 (Haryana)
4. Vendor/customer e-mail id : info@glgolden.com
5. Particulars of bank account
  - a) Name of Bank : ICICI BANK LIMITED
  - b) Name of branch : Sector-31, Gurugram
  - c) Branch code : 001144
  - d) Address : SCO/F-23, Sector-31, Gurugram  
-122002, (Haryana)
  - e) Telephone number : +91 9560214477
  - f) Type of account (current/saving etc.) : CURRENT
  - g) Account Number: : 777705014444
  - h) RTGS IFSC code of the bank branch : ICIC0001144
  - i) NEFT IFSC code of the bank branch : ICIC0001144
  - j) 9 digit MICR code : 110229124

I/We hereby authorize TFL to release any amount due to me/us in the bank account as mentioned above. I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the TFL responsible.

For G. L. GOLDEN

(Signature of vendor/customer)

*G. L. Golden*  
Proprietor

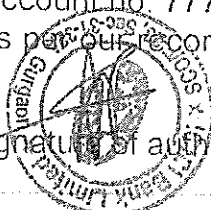
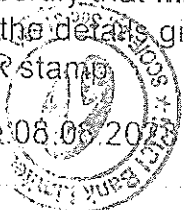
BANK CERTIFICATE

We certify that M/s G L Golden has an Account no. 777705014444 with us and we confirm that the details given above are correct as per our records.

Bank stamp

Date: 06.06.2023

(Signature of authorized officer of bank)



145/31, Near 32nd Miles Stone, Gurugram - 122002 (Haryana)

Email :- glgolden@gmail.com; info@glgolden@gmail.com. Tele Fax : 0124-4107146

001250

**ICICI Bank**  
GURGAON SECTOR-31 Branch  
Sco/F-23, Sector 31, Gurgaon 122002  
RTGS/NEFT IFS CODE : ICIC0001144

VALID FOR THREE MONTHS ONLY

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |   |
| D | D | M | M | Y | Y | Y | Y |

Pay

OR ORDER

Rupees

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|

FOR G.L. GOLDEN

|         |              |
|---------|--------------|
| A/c No. | 777705014444 |
|---------|--------------|

17/11/2017 CAPRY BLPLT CBS R  
BUSINESS BANKING : CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India.

*G. L. Golden*  
777235004444

PROPRIETOR  
Please sign above



⑈000532⑈ 1102291241 014444⑈ 29

For G. L. GOLDEN

*G. L. Golden*  
Proprietor