

BSES YAMUNA POWER LTD (BYPL)

Notice Inviting Tender (NIT)

for

**“Establishment of Rate Contract for Execution of 1.1KV,11KV &
EHV Schemes in BYPL”**

NIT No.: CMC/BY/25-26/RS/AS/06

Dated: 23.06.2025

Due Date for Submission of Tender: 14.07.2025, 11:00 HRS

Date and Time of opening: 14.07.2025, 11:30 HRS

BSES YAMUNA POWER LIMITED,

Shakti Kiran Building, Karkardooma, New Delhi – 110032

Corporate Identification Number: U40109DL2001PLC111525

Website : www.bsesdelhi.com

(This document is meant for the exclusive purpose of bidding against this NIT Number /Specification and shall not be transferred, reproduced, or otherwise used for purposes other than that for which it is specifically issued).

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CHECK LIST
(FOR BID SUBMISSION)

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SECTION- I REQUEST FOR QUOTATION (RFQ)

SECTION- I REQUEST FOR QUOTATION (RFQ)

1. GENERAL

BSES Yamuna Power Limited invites sealed tenders on a **“Establishment of Rate Contract for Execution of 1.1KV,11KV & EHV Schemes in BYPL”**.

- 1.1. The bidder must qualify the requirements as specified in heading “Qualifying Requirements” of this RFQ.
- 1.2. The sealed envelopes shall be duly super-scribed as:

“NIT No.: CMC/BY/25-26/RS/AS/06 Dated: 23.06.2025”

for

“Establishment of Rate Contract for Execution of 1.1KV,11KV & EHV Schemes in BYPL”.

- 1.3. Schedule of the tendering process is given below. Detailed Specification, Scope of Work, Terms & Conditions, etc are mentioned in the Tender documents, which is available on our website.

Cost of Tender Documents (Non- Refundable)	Rs.1180/- (including GST)
Earnest money Deposit	Rs. 2,50,000/-
Duration of the Work	2 Years
Tender documents on sale	23/06/2025 (Working days)
Date & time of Submission of Bid	14/07/2025 till 11:00 HRS
Date & time of opening of Techno- Commercial Bid	14/07/2025 at 11:30 HRS

- 1.4. The tender document can be obtained from address given below against submission of non-refundable demand draft of Rs. 1180/- drawn in favour of BSES Yamuna Power Ltd, payable at Delhi or Online transfer of the requisite amount through IMPS/ NEFT/ RTGS. The tender document is also available for download from the website www.bsesselhi.com--> BSES YAMUNA POWER LTD --> Tender --> Open Tenders, payable at Delhi:
Head of Department
Contracts & Material Dept.
BSES Yamuna Power Limited
IIIrd Floor, “A” Block, Shakti Kiran Building
Karkardooma, New Delhi -110032

In case the tender is downloaded from the above website, then the bidder has to enclose a demand draft or online transfer of the requisite amount through IMPS/ NEFT/ RTGS covering the cost of bid documents

- 1.5. DD shall be accepted for tender fees or Online transfer of the requisite amount through IMPS/ NEFT/ RTGS..
- 1.6. The tender documents will be issued on all working days up to the date mentioned in clause 1.3. The tender documents & detail terms and conditions can also be downloaded from the website www.bsesdelhi.com. In case tender documents are downloaded from the above website, then the bidder has to enclose a separate demand draft covering the cost of bid documents.

2. POINTS TO BE NOTED

- 2.1. Works envisaged under this contract are required to be executed in all respects up to the period of completion/ duration of work mentioned above.
- 2.2. Only those agencies, who fulfil the qualifying criteria as mentioned in clause 3 should submit the tender documents.
- 2.3. BSES YAMUNA Power Ltd reserves the right to accept/reject any or all bids without assigning any reason thereof and alter/amend/modify/add/reduce the amount and quantity mentioned in the tender documents at the time of placing Order
- 2.4. The bid will be summarily rejected if:
 - (a) **Earnest Money Deposit (EMD)** and **Tender Fee** of requisite amount is not deposited as per tender conditions
 - (b) Bid received after due date and time.

3. EMD

- 3.1. The bidder shall furnish, as part of its bid, an EMD of the requisite amount. The EMD is required to protect the Company against the risk of Bidder's conduct which would warrant forfeiture. The EMD shall be denominated in any of the following forms:

(a) BG from nationalized / Scheduled Bank, as per the format annexed in the tender document, in favour of BSES Yamuna Power Limited valid for 6(Six) months from original due date of bid submission.

(b) Fixed Deposit (lien marked in favor of BSES YAMUNA POWER LTD) valid for 6(Six) months from original due date of bid submission.

- 3.2. Please note that bank details as given below have been provided only for the purpose of making BG for EMD.

Beneficiary Name	: BSES Yamuna Power Limited
Bank Name	: State Bank of India (SBI)
A/c No.	: 10277791808
IFSC Code	: SBIN0009601

- 3.3. The EMD of the bidders who are not technically qualified shall be returned after the price bid opening.

- 3.4. Earnest money given by all the bidders who are techno commercially qualified except the lower bidder shall be returned within 8 (Eight) weeks after award of the work.

3.5. The EMD of the successful bidder shall be returned on submission of CPBG as per tender terms.

3.6. The EMD may be forfeited in case of:

- (a) The Bidder withdraws its bid during the period of bid validity specified by the Bidder in the Bid Form or
- (b) The successful Bidder does not
 - (i) Accept the Purchase Order/Work Order, or
 - (ii) furnish the required CPBG as per the tender terms
- (c) The bidder is found to have submitted false or forged, any of the documents/certificates/information.

4. QUALIFYING REQUIREMENTS (QR)

The prospective bidder must meet all of the following qualifying requirements to be eligible to participate in the bidding.

1.1. Technical QR:

- (i) The bidder must have executed similar jobs for maintenance or execution of 11 kV or higher voltage rated network in any power distribution utility or govt organisations or govt undertakings for a total value of not less than Rs. 30 Lac or one single order of not less than Rs. 15 lacs or two orders each not less than of Rs. 08 lacs each or three order each not less than Rs 5 lac during last 3 financial years. (FY 22-23, FY 23-24 & FY 24-25)

Note: - In case of bidder has a previous association with BRPL/BYPL for similar product and service, the performance feedback for that bidder by BRPL/BYPL shall only be considered irrespective of performance certificate issued by any third party organization.

- (ii) The bidder should have satisfactory performance certificates from at least 2 reputed organizations (at least one from each organization) for similar work or higher rating work. The work against these issued certificates should be completed within the last seven years from the date of bid submission.
- (iii) The bidder should have Valid Electrical Contractor License issued by Govt of NCT of Delhi to execute the electrical works in Delhi. Copy of valid Electrical Contractor License issued by Govt. of NCT Delhi needs to be submitted by bidder. In case bidder is not having this License, Bidder shall submit an undertaking that in case they are the successful bidder, same shall be obtained by them before award of contract by BYPL.

1.2. Financial QR:

- (i) The average annual turnover of the Bidder, in the last three financial years i.e., (FY 21-22, FY 22-23 & FY 23-24) should not be less than Rs 2 Crore. The bidder shall submit the Annual Turnover Certificate for these years duly certified by a Chartered Accountant. The Turnover certificate must have a UDIN Number.

- (ii) Bidder should have valid Registration of GST & PAN.
- (iii) Bidder must provide proof of having solvency of an amount equal to Rs 0.5 Crore from any nationalized/ scheduled commercial bank. It should not be older than 30 days from the date of submission of Techno-Commercial bid.
- (iv) Bidder should fulfil all statutory compliances like PF, ESI registration, etc.
- (v) Entities that have been currently debarred/blacklisted by any Private/central/state government institution including electricity boards in India, any of the DISCOM in India, are not eligible to participate in this tender . Accordingly an undertaking by the Authorized Person along with other documents to be provided by the bidder on its letterhead in this regard, confirming in clear terms, that the bidder has not been debarred/blacklisted as on the date of submission of the bid. Bidders who are currently debarred/ blacklisted/ suspended by BYPL will not be considered in this tender.
- (vi) The bidder should give an undertaking by the Authorised Person on their letterhead that all the documents/certificates/information submitted by them against the tender are genuine/true/correct and the copies of documents have been made from the original document/s. Further, in case any of the documents/certificates/information submitted by the bidder is found to be false or forged, BYPL at its sole discretion shall be free to take all actions as permitted under law, including forfeiture of EMD and disqualification from participation in the future tenders of BYPL & Its group companies for indefinite period or period as may be decided by BYPL.
- (vii) The bidder should submit an undertaking for “No Litigation” / no legal case is pending with BYPL or its Group Companies. Bidders having any litigation/ legal case pending with BYPL shall not be considered qualified for this tender.

1.3. Other Requirements:

- (a) The company reserves the right to carry out technical capability/ infrastructure assessment of the Bidders by factory/office/site inspection or by any other means. The company's decision shall be final in this regard.
- (b) The bidder shall submit all necessary documentary evidence to establish that the Bidder meets the above qualifying requirements, including but not limited to the following:
 - i. The last three Financial Years (FY 21-22, FY 22-23 & FY 23-24) audited financial statements.
 - ii. Bidder to submit UDIN-based CA Certificate showing NIL dues towards Statutory Liabilities, including GST, Taxation, PF, ESI, or any other dues Statutory in nature for the period up to, herein collectively called as “Statutory dues” and there is no liability over the bidder relating to deposition of such statutory dues.
 - iii. Detail of Banks and & Fund & Non-fund-based Credit limit
 - iv. Details of formation/registration of the firm (Proprietary/ Partnership) or Company along with all relevant details)

- v. Memorandum & Articles of Association of the Company/ Partnership Deed of the Firm /other registration documents, as applicable
- vi. Organization Chart of the Bidders Company/organization
- vii. Organization chart for execution of the contract comprising of Technically Qualified manager, Safety officer as per CEA guidelines, HR manager, Diploma / Graduate Engineers etc.
- viii. Experience details with credentials
- ix. Number of Employees & necessary details
- x. Details of office/s in Delhi, Details of Registered and Corporate offices and details of other offices/establishments in India.
- xi. Work order copies along with performance certificates in support of relevant experience
- xii. Turnover certificate issued by CA (along with UDIN no.) for the last three Financial Years.
- xiii. Net worth certificate as elaborated in financial QR
- xiv. List of pending litigation with government/other institutions on account of executing any order.
- xv. Copy of ESI/PF Registration certificate
- xvi. Copy of PAN/GST no.
- xvii. Copy of GST Return of last Financial Year.
- xviii. Copy of valid Electrical License
- xix. Non-Disclosure Agreement (NDA) as per format attached
- xx. Bidder's details as per the format attached
- xxi. Solvency Certificate
- xxii. An undertaking to provide all Tools & Plants, PPEs as per tender scope

(c) For Existing vendors of BYPL, the evaluation will also include the performance in the existing contracts via-a-vis performance in terms of HR issues, all statutory Compliance parameters and wage disbursement by Vendors. BYPL reserves the right to qualify or disqualify their bid based on the contract performance despite them meeting the above-mentioned qualification requirements.

(d) BYPL may ask for such other documents as it deems fit for substantiating/ justifying the submissions made by the bidder.

5. PRE-BID MEETING:

A pre-Bid meeting shall be organised physically or digitally (through web conferencing platform) at the time and date as specified in the tender documents in the presence of those bidders or their authorized representatives who may choose to be present.

The details of the proposed Online meeting (if applicable) are given below: -

Time: 02.07.2025 11:00 HRS India

Microsoft Teams

[Join the meeting now](#)

Meeting ID: 418 370 002 021 7

Passcode: ff2jt7Ti

All queries related to this tender must reach to C&M Department of BYPL at least three days before the date of the pre- bid meeting. All the bidder's queries shall be replied to in the pre-bid meeting. In case any change is required in the tender document the same shall be effected in the form of corrigendum to this tender. The bidder or their representatives who intend to bid and who have either purchased tender documents or will pay tender fees for downloaded documents are invited to attend the pre-bid meeting. Corrigendum, if any, to the tender document shall be hosted on the website subsequent to the pre-bid meeting. Bidders are requested to submit their offer strictly in line with this tender document& corrigendum if any.

6. BID SUBMISSION

FOR BIDS INVITED THROUGH E-TENDERING PORTAL:

BSES will carry out E-Tendering through its e-tendering portal <https://srmpportal.bsedelhi.com>

Interested Non-registered bidders are requested to obtain the portal user name and password (if not available) for bid submission. For participating in e-Tenders of BYPL, please write a mail to

1. Mr Rakesh Sharma, E-mail: Rakesh.Ku.Sharma@reliancegroupindia.com
2. Mr Abhinav Sharma, E-mail: Abhinav.K.Sharma@reliancegroupindia.com with your details as per below:
 - a) Existing Vendor Code with BYPL or its Group/Associates Companies (if available):
 - b) Trade Name:
 - c) Address of Principal Place of Business:
 - d) Contact Person's Name:
 - e) Contact Person's Designation:
 - f) Contact Person's Mobile No.:
 - g) Contact Person's email ID:
 - h) Also, attach a valid copy of Power of Attorney in favor of mentioned Contact Person for being authorized to receive user ID and password on behalf of their organization.

The login ID details shall be sent through email to the email ID mentioned by you for the same.

Bids shall be submitted in 2 (Two) parts on the assigned folder of the e-Tendering site. Please refer to the user manual available at <https://srmpportal.bsedelhi.com> and enclosed with the tender.

Bids have to be mandatorily submitted only through the e-tendering portal of BSES Delhi. Bids submitted through any other form/ route shall not be admissible. However, documents that necessarily have to be submitted in originals like EMD or Tender Fee (in the form of BG/ DD as applicable) and any other documents mentioned in the tender documents have to be submitted at the BYPL office before the due date & time of submission.

PART A:: TECHNICAL BID comprising of the following:

Sr. No	Descriptions	Type of Documents
1	Tender Fee - Demand Draft (Rs.1180/-) (Incl Gst)	As per Clause no. 1.3
2	Earnest Money Deposit(EMD)	As per Clause no. 3
3	Power-Of-Authority	In the standard stamp paper & format
4	Cover Letter	Standard Format
5	Technical Bid Submission Check List	Checklist at page no. 7
7	Pre-Qualification Compliances	Documentary evidence in support of the qualifying criteria mentioned in Section 1 Clause 4.0
8	Signed Tender Document	Original Tender documents duly stamped & signed on each page as a token of acceptance
10	Bid Form (Unpriced) Duly Signed	Duly Signed Bid Form as per enclosed format at ANNEXURE – 1.
11	Acceptance Of Reverse Auction	Duly signed Acceptance Form For Participation In Reverse Auction Event as per enclosed format at ANNEXURE – 3
12	Undertakings	Duly signed self-undertakings as per clause 4 at Section 1 , Format 4.6
13	Schedule Of Deviations	Duly filled and signed as per enclosed format at Formats Format 4.4
14	Communication Matrix	Duly filled and signed as per enclosed format at Format 4.5
15	Gpr Survey Format	Duly signed self-undertakings as per clause 4 at Section 1 , Format 4.7

Sr. No	Descriptions	Type of Documents
16	Un Price Bid Duly Signed	Duly Signed Un price Bid as per enclosed format at Section VI - PRICE BID FORMAT
17	Organization Chart & Manpower Details.	Bidder shall submit the details of Organization & Manpower with qualification and experience.

PART B: PRICE BID :

(a) **PRICE BID** shall Comprise of Prices **strictly** in the Format enclosed in SECTION VII. Any change in price bid format, content may lead to rejection of the bid.

Price Bid will be opened after techno-commercial evaluation of all the bids and only of the qualified bidders.

7. TIME SCHEDULE

The activities and their timelines are given hereunder which needs to be adhered by the bidders.

S. No.	Activity	Description	Due date
1	Submission of Technical & Commercial Queries, if any	All Queries related to NIT	01.07.2025
2	Pre-Bid Meeting	Discussion on pre-bid queries	02.07.2025 at 11.00 HRS
3	Submission of Techno-Commercial & Price Bid	Unpriced Techno-Commercial & Price Bid in separate sealed envelopes	14.07.2025 at 11.00 HRS
4	Opening of Techno-Commercial Bid	Opening of PART-A	14.07.2025 at 11:30 HRS
5	Opening of Price Bid	Opening of PART-B of only the techno-commercially qualified bidders (List of bidders will be published at our website)	To be informed separately
6	Reverse Auction	As per RA terms	Schedule will be intimated to eligible bidders through email from email id: BYPL.Eauction@relianceada.com

8. AWARD DECISION

- 8.1. Company intends to award the business on a lowest bid basis, so bidders are encouraged to submit the bid competitively. The decision to place order/LOI solely depends on Company on the cost competitiveness across multiple lots, quality, delivery and bidder 's capacity, in addition to other factors that Company may deem relevant.
- 8.2. The Company reserves all the rights to award the contract to one or more bidders who meet the execution requirement or nullify the award decision without assigning any reason thereof.
- 8.3. In case the performance of any contractor is found unsatisfactory during the execution process, the award will be cancelled and BYPL reserves the right to award the work to another contractor(s) who will be found eligible/fit.
- 8.4. The abnormally higher or abnormally lower bids shall not be considered with respect to estimated cost. The criteria decided by BYPL on this shall be final and binding on the bidders.
- 8.5. The bidding firms are advised to quote their Margin / Administrative Service Charges accordingly. BYPL reserves the right to reject the bids quoted with abnormally higher or abnormally lower individual activity rates. The criteria decided by BYPL on this shall be final and binding on the bidders and will not be open for discussion under any circumstances.

9. MARKET INTEGRITY

We have a fair and competitive marketplace. The rules for the bidders are outlined in the Terms & Conditions of the tender documents. Bidders must agree to these rules prior to participating in the tender. In addition to other remedies available, we reserve the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the Terms & Conditions. Bidder(s) who violate the marketplace rules or engage in behavior that disrupts the fair execution of the marketplace restricts a bidder from participation in future tenders of BYPL to a length of time as decided by BYPL, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honour prices submitted to the market place.
- Breach of the terms published in Request for Quotation/NIT
- Misrepresentation of facts, submitting false and fabricating documents

10. CONFIDENTIALITY

All information contained in this tender document is confidential and may not be disclosed, published or advertised in any manner without written authorization from BYPL. This includes all bidding information submitted.

All tender documents remain the property of BYPL and all bidders are required to return these documents to BYPL upon request.

Bidder(s) who do not honour these confidentiality provisions will be excluded from participating in future bidding events.

The bidder shall sign a Non-Disclosure Agreement (NDA) in the format attached in tender document and submit along with its bid.

11. CONTACT INFORMATION

Technical & Commercial clarification, if any, regarding this tender shall be sought in writing and sent by e-mail to the following e-mail IDs:

Address	Name/ Designation	E-mail Address / Phone Number
C&M Dept, 3rd Floor, A Block, BSES Yamuna Power Ltd Shakti Kiran Building, Karkardooma, New Delhi- 110032	Mr.Abhinav Sharma, GM – (C&M)	Abhinav.k.sharma@relianceada.com / 011-4124 9315
	Mr.Robin Sebastian, Head – (C&M)	Robin.Sebastian@relianceada.com / 011-4124 9230

SECTION-II : INSTRUCTIONS TO BIDDERS (ITB)

SECTION-II
INSTRUCTIONS TO BIDDERS (ITB)

1. GENERAL

BSES YAMUNA Power Ltd (BYPL), hereinafter referred to as the “**Establishment of Rate Contract for Execution of 1.1KV,11KV & EHV Schemes in BYPL**” as notified in this tender document.

- 1.1 All the Bids shall be prepared and submitted in accordance with these instructions.
- 1.2 Bidder shall bear all costs associated with the preparation and delivery of its Bid, and the Company will in no case shall be responsible or liable for these costs.
- 1.3 The Bid should be submitted by the Bidder in whose name the bid document has been issued and under no circumstances it shall be transferred /sold to the other party.
- 1.4 The Company reserves the right to request for any additional information/documents and also reserves the right to reject the proposal of any Bidder, if in the opinion of the Company, the data in support of RFQ requirement is incomplete.
- 1.5 The Bidder is expected to examine all instructions, forms, terms & conditions and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or submission of a Bid not substantially responsive to the Bid Documents in every respect may result in rejection of the Bid. However, the Company's decision in regard to the responsiveness and rejection of bids shall be final and binding without any obligation, financial or otherwise, on the Company.
- 1.6 The company reserves the right to split the order among various successful bidders in any manner it chooses without assigning any reason whatsoever.

2. SCOPE OF WORK

Detailed specification/scope of work is provided in Section-V of this tender document.

3. DISCLAIMER

- 3.1. This NIT is not an agreement and further it is neither an offer nor an invitation by BYPL to bidders or any other person for award of contract. The purpose of this NIT is to provide bidders information that may be useful to them in the preparation and submission of their bids.
- 3.2. This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.
- 3.3. Neither Company nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this Document, provision of Services and any other information supplied by or on behalf of Company or its employees, or otherwise arising in any way from the selection process for the Work.

- 3.4. Though adequate care has been taken while issuing the Tender document, the Bidder should satisfy itself that Documents are complete in all respects. Intimation of any discrepancy shall be given to this office immediately.
- 3.5. This Document and the information contained herein are Strictly Confidential and are for the use of only the person(s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).
- 3.6. It shall be deemed that by submitting a bid, a bidder agrees to release BYPL and its employees, agents and advisors irrevocably unconditionally fully and finally from any and all liability for any claims losses damages costs expenses or liabilities in anyway related to or arising from exercise of any rights and all performance of any obligations under this NIT and or in connection with the bid process to the fullest extent permitted by applicable law and waives any and all rights and all claims it may have in this respect whether actual or contingent whether present or in the future
- 3.7. BYPL and its employees and advisors also accept no liability of any nature whether resulting from negligence or otherwise arising from reliance of any bidder upon the contents of this NIT. BYPL may in its absolute discretion but without being under any obligation to do so, update amend or supplement the information assessment statement or assumptions contained in this NIT.
- 3.8. The issue of this tender document does not imply that BYPL is bound to qualify any bidder or to award the contract to any bidder. BYPL reserves the right to reject all or any of the bids without assigning any reasons whatsoever.

4. COST OF BIDDING

The Bidder shall bear all cost associated with the preparation, submission and processing of its Bid and the company will in no case be responsible or liable for the costs.

5. TENDER DOCUMENTS

- 5.1. The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents. In addition to the covering letter accompanying Bidding Documents, the Bidding Documents include:

“Check List, Sections, Annexure & Formats as elaborated in CONTENT of this NIT.”

- 5.2. The bidder is expected to examine the tender documents, including all Instructions, Forms, Terms and Specifications. Failure to furnish all information required by the tender documents or submission of a bid not substantially responsive to the tender documents in every respect may result in the rejection of the Bid.

6. AMENDMENT OF TENDER DOCUMENTS

- 6.1. At any time prior to the deadline for submission of Bids, the Company may for any reason(s), whether at its own initiative or in response to a clarification requested by a prospective Bidder, alter/amend/modify the tender documents by corrigendum /amendment.
- 6.2. The corrigendum / amendment shall be part of tender document, pursuant to Clause 5.1, and it will be notified
(a) by way of uploading the corrigendum/amendment on BSES website (in case of public tender)

(b) in writing by e-mail to all the Bidders who have received the Bidding Documents by email. (in case of limited tender)

All such corrigendum & amendments will be binding on the bidders.

- 6.3. In order to provide prospective Bidders a reasonable time in which to take the Amendment into account in preparing their Bids, the Company may, at its discretion, extend the deadline for the submission of Bids.

7. PREPARATION OF BIDS & LANGUAGE

The Bid prepared by the Bidder, and all correspondence, documents etc. relating to the Bid exchanged by the Bidder and the Company shall be written in English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by English translation, in which case, for purposes of interpretation of the Bid. In case of ambiguity in the English translation, interpretation of the Company as regards to translation will be final.

8. DOCUMENTS COMPRISING THE BID

The Bid prepared and submitted by the Bidder shall comprise the following components:

- (a) Techno-Commercial Bid & Price Bid as elaborated in RFQ. (STRICTLY AS PER FORMAT)
- (b) All the Bids must be accompanied with the required EMD & Tender Fees against each tender.

9. BID FORM

The Bidder shall complete "Original" Bid Form and submit it along with details mentioned in Techno-Commercial bid (without filling price).

10. BID PRICES

Bidders shall quote for the entire Scope of work with prices for individual items. The bidder is required, at his expense, to obtain all the information he may require to enable him to submit his tender including necessary visits to the site to ascertain the local conditions, procurement of necessary materials, labour, etc., requirements of the local/government/public authorities in such matters.

11. BID CURRENCIES

Prices shall be quoted in Indian Rupees Only.

12. PERIOD OF VALIDITY OF BIDS

- 12.1. Bids shall remain valid & open for acceptance for a period of 180 days from the date of opening of the Bid.
- 12.2. Notwithstanding above, the Company may solicit the Bidder's consent to an extension of the Period of Bid Validity and the bidder shall be liable to extend the same at the sole cost and consequences of the bidder and no claim from the company in this regard shall be maintainable.

13. ALTERNATIVE BIDS

Bidders shall submit Bids, which comply with the Tender Documents. Alternative Bids will not be considered. The attention of Bidders is drawn to the provisions regarding the rejection of Bids in the terms and conditions, which are not substantially responsive to the requirements of the Tender Documents.

14. FORMAT AND SIGNING OF BID

- 14.1. The original Bid Form and accompanying documents (as specified in Clause 9.0), clearly marked "Original Bid", must be received by the Company at the date, time and place specified in Section-I, RFQ.
- 14.2. The original copy of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. Such authorization shall be indicated by written Power-of-Authority accompanying the Bid. All pages of the bid shall be signed by the signatory accompanied with seal of the Agency.
- 14.3. The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be signed by the person or persons signing the Bid.

15. SEALING AND MARKING OF BIDS

- 15.1. Bid submission: One original (hard copies) and one duplicate (total two copies) of all the Bid Documents shall be sealed and submitted to the Company before the closing time for submission of the bid.
- 15.2. The Bidder has the option of sending the Bids in person. Bids submitted by Email/Telex/Telegram /Fax will be rejected. No request from any Bidder to the Company to collect the proposals from Courier/Airlines/Cargo Agents etc shall be entertained by the Company.

16. DEADLINE FOR SUBMISSION OF BIDS

- 16.1. The Original bid must be timely received by the company at the address specified in Section-I, RFQ.
- 16.2. The Company may, at its discretion extend the deadline for the submission of bids by amending the Tender Documents in accordance with Clause 6.0, in which case all rights and obligations of the Company and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17. ONE BID PER BIDDER

Each Bidder shall submit only one Bid by itself. A Bidder who submits or participates in more than one Bid will cause all those Bids to be rejected.

18. LATE BIDS

Any Bid received by the Company after the deadline for submission of Bids prescribed by the Company, pursuant to Clause 16.0, will be declared "Late" and rejected and returned unopened to the Bidder.

19. MODIFICATIONS AND WITHDRAWAL OF BIDS

The Bidder is not allowed to modify or withdraw its Bid after the due date of bid submission.

20. EVALUATION OF BID

20.1. The bids will be evaluated techno-commercially on compliance to tender terms and Conditions.

20.2. BYPL reserves the right to ask the bidders to provide any additional information including breakup of the prices as quoted by them against line items.

21. CLARIFICATION OF BIDS

To assist in the examination, evaluation and comparison of Bids, the Company may, at its discretion, ask the Bidder for a clarification of its Bid. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted

22. PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

22.1. Company will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.

22.2. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.

22.3. Company will determine the substantial responsiveness of each Bid to the Tender Documents including execution capability and acceptable quality of the services offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Tender Documents without deviation.

22.4. Bid determined as not substantially responsive will be rejected by the Company and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

23. EVALUATION AND COMPARISON OF BIDS

23.1. The evaluation of Bids shall be done based on the delivered cost competitiveness basis.

23.2. The evaluation of the Bids shall be a stage-wise procedure. The following stages are identified for evaluation purposes: In the first stage, the Bids would be subjected to a responsiveness check later on the Techno-Commercial Proposals and the Conditionality of the Bidders would be evaluated. Subsequently, the Financial Proposals along with Supplementary Financial Proposals, if any, of Bidders with Techno-commercially Acceptable Bids shall be considered for final evaluation.

23.3. The Company's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:

NIT: CMC/BY/25-26/RS/AS/ 06 RFx Number: 2200000129	Page 24 of 250	Bidder Seal & Signature
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- (a) Contract completion schedule
- (b) Conformance to Qualifying Criteria
- (c) Deviations from Tender Documents
- (d) Conformity and compliance to the conditions/details provided in pre-bid meeting
- (e) Change in the quantity from mentioned in the tender

23.4. The cost of all quantifiable deviations and omissions from the specification, terms and conditions specified in Tender Documents shall be evaluated.

23.5. The Company will make its own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.

23.6. Adjustments in price, if any, based on the above procedures, shall be made for the purposes of comparative evaluation only to arrive at an "Evaluated Bid Price". Bid Prices quoted by Bidders shall remain unaltered.

24. CONTACTING THE COMPANY

24.1. From the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Company on any matter related to the Bid, it should do so in writing.

24.2. Any effort by a Bidder to influence the Company and/or in the Company's decisions in respect of Bid evaluation, Bid comparison or Contract Award, will result in the rejection of the Bidder's Bid.

25. COMPANY'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Company reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Company's action.

26. AWARD OF CONTRACT

The Company will award the Contract to the successful Bidder whose Bid has been determined to be the lowest-evaluated responsive Bid, provided the Bidder has been determined to be qualified to satisfactorily perform the Contract. Company reserves the right to award order to other bidders in the tender, provided it is required for need of the work. The full or part of the contract may be awarded to other bidder(s) on differential rates.

27. THE COMPANY'S RIGHT TO VARY QUANTITIES

The Company reserves the right to vary the quantity i.e. increase or decrease the Numbers/ quantities without any change in terms and conditions before the award of Contract. Further BYPL may increase or reduce the area/ scale of operations / increase or decrease the Numbers/ quantities after the start of work execution under the contract and the size of contract / contract value shall be adjusted accordingly. In case of decrease in base resources decided mutually then contract value will be adjusted accordingly.

28. LETTER OF INTENT/ NOTIFICATION OF AWARD

The letter of intent/ Notification of Award shall be issued to the successful Bidder whose bids have been considered successful for award of work/order.

The successful Bidder shall be required to furnish acceptance of LOI / notification of award within 7 days of issue of the letter of intent /Notification of Award by Company.

29. CORRUPT OR FRAUDULENT PRACTICES

29.1. The Company requires that the Bidders observe the highest standard of ethics during the entire period of work execution under the Contract. In pursuance of this policy, the Company:

(a) Defines, for the purposes of this provision, the terms set forth below as follows:

"Corrupt practice" means behaviour on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and "Fraudulent practice" means a misrepresentation of facts in order to influence a award process or the execution of a contract to the detriment of the Company, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Company of the benefits of free and open competition.

(b) Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) Will declare a firm ineligible either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract.

29.2. Furthermore, It shall be the responsibility of the Bidders to read and understand & aware of the provision stated in the Terms and Conditions of tender before participating in the tender.

30. PROCESS TO BE CONFIDENTIAL

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Company's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

SECTION – III : SPECIAL CONDITIONS OF CONTRACT (SCC)

SECTION – III:**SPECIAL CONDITIONS OF CONTRACT (SCC):**

These Special Conditions of Contract (SCC) shall be read in conjunction with the Terms and Conditions of the Contract, General Conditions of Contract (GCC), Scope of Work and other documents forming part of the contract wherever the context so requires. Notwithstanding the subdivision of documents into separate sections and volumes, every part of each such document shall be deemed supplementary to and complementary of every other part.

COMMERCIAL TERMS & CONDITIONS:**SPECIAL CONDITIONS OF CONTRACT (SCC)**

1. DEFINITIONS
2. SCOPE OF WORK
3. EFFECTIVE DATE, TIME AND VALIDITY
4. ORDER VALUE
5. RATES & ESCALATION
6. CONTRACT CUM PERFORMANCE SECURITY BANK GUARANTEE (CPBG)
7. PAYMENT TERMS:
8. LIQUIDATED DAMAGES&PENALTY
9. DERC GUIDELINES & REGULATIONS
10. INSURANCE POLICIES
11. WARRANTY/DEFECT LIABILITY PERIOD

1.DEFINITIONS**ENGINEER IN-CHARGE(EIC)/OFFICER-IN-CHARGE(OIC)**

The term "Engineer-in-charge(EIC)/Officer-in-Charge(OIC)" shall mean the Company's nominated representative for the purpose of supervision of the execution of the Contract. The same shall be mentioned in the Contract.

2.SCOPE OF WORK

Special Conditions of Contract (SCC) Rate Contract shall be valid for a period of 2 (Two) Years from the placement of Contract. Released Order (RO) will be placed as per the requirement of BYPL.BYPL may, at its sole discretion, consider renewal and extension of the agreement beyond agreement duration. Such a decision for extension, if envisaged, may be taken 1 month before the expiry of the agreement. However, BYPL may, at its discretion, renew even within One Month of expiry of agreement. BYPL reserves the right not to renew and extend the agreement beyond agreement duration

Price shall remain Firm till the validity of the Contract.Necessary statutory clearance from Chief Electrical Inspectorate (CEI) of Delhi & any other authority for energizing the Circuit shall be in the scope of this tender. However, any statutory fees shall be borne by BYPL on production of documentary evidence.

Bidders are requested to visit the site to understand the scope of work, site conditions and requirement prior to bidding. Hence, no price/time escalation shall be admissible on these accounts.

Prior erecting any extra items for these scheme- rates should be approved from competent authority.

The Bidder should have own Safety equipment like Neon Tester, Portable Earth device, Earthing discharge rod etc along with Calibration certificates of all equipment's.

The Bidder should have own testing equipment's/ they have to provide like IR Tester/Megger, Hi Pot Test Kit and Earth Tester, clamp meter, Route Tracing Equipment's with Calibration certificates for testing.

Bidder must follow BYPL specified drawings and wherever BYPL specifications are not available relevant IS/IEC to be followed. All Drawings mentioned in the Tender Specification and other required for the completeness of the tender shall be submitted. Drawing submission process shall not be deemed complete if all the requirements are not complied during the submission of the same.

All bidders must follow the BYPL Specification and Drawing for all installation works. It will be the responsibility of bidders, to take approval in RC for all such drawing & Specification.

Successful Bidder must depute the safety officer and Quality officer separately at site for whole duration and they must submit the safety report and quality report to BYPL E-I-C as and when required.

Taking Over: After commissioning of the complete system and final approval of Electrical Inspector & compliance to punch points observed to the satisfaction of Projects as per Property of BYPL – Not to be reproduced without prior written permission of BYPL statutory requirements, system shall be handed over to BYPL. In case taking over by BYPL is delayed because of reasons not attributable to Business Associate (BA), taking over certificate will be issued by BYPL.

BYPL appreciates and welcomes the engagement/employment of persons from SC/ST community or any other deprived section of society by their BAs.

Any change in statutory taxes, duties and levies during the contract period shall be borne by BYPL. However, in case of delay in work execution owing to reasons not attributable to BYPL, any increase in total liability shall be passed on the Bidder, whereas any benefits arising owing to such statutory variation in taxes and duties shall be passed on BYPL.

Permissions from road owning agencies & statutory clearances shall be taken by BYPL, however full support shall be provided by bidder to achieve it.

There will be no price escalation given to bidder after issue the RO even if there is delayed the project due to ROW permission.

Quotation in all BOM items is mandatory, and bid shall be rejected if any line of found blank in price bid.

Sign writing of equipment's/poles/cables etc. where ETC of such equipment's is also in bidder scope shall be in bidder scope.

Statutory Variations: Any changes in existing taxes/ Duties and levies, Introduction of new taxes and duties etc during the period of the contract shall be paid at actuals to BA subject to BA shall submit the tax break up in details, however, where BA has quoted the allinclusive prices and not shown the tax break-up, this clause will not be applicable. The date of issue of MDCC shall be used for this purpose.

For Trenchless Service, Length of the Cable to calculated Actual cable laid at site supported by the photographs showing cable length details.

In case any additional material is to be asked to supply after finalization of scope of work in the detailed Engineering, the Extra price and the extension of delivery time (if applicable) as the case may be mutually agreed between BYPL and Successful Bidder.

Providing the steel barricading/ any other (as per site requirement) as per BYPL specification will be in Bidder scope, BYPL will not give any additional cost for this activity. This line item is not mentioned in Tender BOQ and no extra item will be paid to successful bidder in future for this activity.

Normal De-watering will be in bidder scope, BYPL will not give additional cost for this activity, but if there will be huge de-watering or level of water is huge than prices for this activity will be decided mutually. In this case successful bidder must provide the details back up for this activity.

Loading, Unloading & Transportation of empty drum and all the scrap material to be stacked counted (where material supplied by BA) will be in bidder scope.

Crane/ New Generation Hydra shall be used for loading, unloading, handling & erection of equipment at site. Normal Hydra shall not be used at site. In case of site related issues where crane or New Gen Hydra cannot be used due to site constraint, the Normal Hydra can be used after taking the permission from BYPL EIC.

Providing Infrastructure and Supporting to Jointer for making the joints in HT/LT in O/H Line and underground line shall be in bidder Scope. This item shall not be paid additional.

Prior erecting any extra items for these schemes, rates should be approved from competent authority. In case any additional material is to be asked to supply after finalization of scope of work in the detailed Engineering, the Extra price and the extension of delivery time (if applicable) mutually agreed between BYPL and Successful Bidder.

The successful bidder must follow the safety along with proper PPEs as per GCC. The penalty will be imposed to bidder for any safety violence as per CSM matrix.

The successful bidder must follow the all-quality related guidelines of BYPL. The penalty may be imposed by EIC to bidder for any non-adherence.

The scope of supply items includes design, Engineering, Manufacturing, testing, loading, unloading, transportation to site storage, preservation, insurance, along with supply of all accessories, tools, spares, O&M catalogues for successful ITC is in the scope of Bidder.

After successful awarding of Rate contract, Bidder must assign authorised person and specific site supervisor for particular Release order and if any other change in site supervisor same may be done in consideration with respective EIC.

If Bidder fails to reconcile the material against the particular order, Force majeure recovery can be done with approval of respective EIC.

If Bidder doesn't have MDCC of supply material before the date of completion of work at site, then he is liable to penalty.

PENALTY CLAUSE OF CANCELLATION OF CONTRACT DUE TO REASONS ATTRIBUTED TO BA

In case of Vendor to execute the allotted work (CONTRACT) up to the satisfaction of EIC and thus arising the need of order cancellation/termination, BYPL shall be at liberty to get the same done at Associate's risks & costs and recover differential expenses (on positive side) plus the BYPL's own charges (@ 20% of such surrendered Release order value), from the other vendor or from the #Security cum Performance Deposit# as the case may be, based on recommendations of HOD of the concerned department . The scope includes material transportation, GPR Survey of Route, digging of trench, cable laying, supply of HDPE pipe, cable cover, Backfilling of trench, Covering of Malba, Dust mitigation Measures at Site, close Barricading, Removal of Surplus Malba, ETC of Transformer of various rating, VCB, CT, PT, LA, Isolator, C&R Panel, BMK, Laying of control cable, Fabrication and Erection of Steel Structure, Stringing of Bus Bar, Plinth for distribution transformer etc. as per detailed scope of work as enumerated scheme wise.

Vendor is responsible for taking the Permission from Road owning agencies & Delhi Police, statutory fees will be borne by BYPL. Electrical Inspector Clearance fees shall be in Bidder's scope. The related fees, payments and pursuance work shall be in scope of Bidder only.

3.EFFECTIVE DATE, TIME AND VALIDITY

3.1 The order/agreement shall become effective for all purposes from the date to be specified under the agreement and continue to remain in force for the period of One (1) year.

3.2 You are required to mobilize your manpower within 7 days of receipt of WO and commence the activity as per instructions of Engineer In-charge. The entire work should be completed within One (1) year from the date of issue of order.

3.3 The detailed schedule and milestone completion dates would be as per the contract schedules given from time to time by Engineer In-charge at site. You shall submit a weekly progress report to Engineer In charge.

4.ORDER VALUE

Value of the contract will be contracted out on the basis of finalized rates.

The Contractor shall not be entitled to adjustment in the Service Fees during the term of this Agreement for increase due to-

- (a) increased labour costs or costs related to vehicles or other Equipment's provided,
- (b) changes in insurance premiums, and/or
- (c) changes in legislations or regulations relating to the Service.
- (d) The cost of insurance during loading/unloading of materials/equipment's during its storage and handling/erection at site for installation is included in the contractor's scope and value will be included in the work order value. The unit rates are also inclusive of barricading charges and watch & ward charges during execution and no separate charges shall be paid for the same.

5.RATES & ESCALATION

5.1 The Rates/Agreement Consideration are firm and fixed for the Agreement period. The Rates shall not be subject to escalation or increases on any account /reason(s) whatsoever.

5.2 The rates set out above are also inclusive of reasonable incidental expenses incurred by Contractor on the following:

I. Cost of Labour, tackles and supervision.

II. All taxes and levies, including but not limited to GST, etc. as applicable during the currency of the contract.

III. -

IV. -

V. Rates shall be valid for all heights and locations. VI. All other expenses incidental to the job.

VII. The Company shall pay only once against the service provided irrespective of the fact that the Contractor might have to take more than one attempts for providing the service.

VIII. Compliance with all labour laws including Minimum Wage Act, Bonus Act, The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) ACT, 2013 etc in respect of employees engaged by the Contractor for the discharge of services as per this agreement.

6.CONTRACT CUM PERFORMANCE SECURITY BANK GUARANTEE (CPBG)

6.1 Contractor shall furnish the CPBG in the prescribed format within 15 days from the date of issue of LOI / Work Order for due performance of the provisions of Work Order/Agreement.

6.2 The contract Performance Bank Guarantee shall be of 10% of the initial contract value and shall be valid till the completion of defect liability period plus three(3) months or latest RBI

guidelines(if any)whichever is higher towards claim period, if not otherwise specified in agreement.This amount shall remain fixed during the currency of the agreement.

6.3 The CPBG shall be issued from any nationalized/scheduled bank as per company format.

6.4 The Company shall reserve the right to invoke the CPBG unconditionally and without recourse to the Contractor, if there is failure to perform any part of the Agreement for whatsoever reason. This clause is pertaining to performance of contractual obligations and the decision of Company shall be final in this regard.

6.5 In the event of any claim or any other outstanding Contractual obligations remaining unfulfilled, the Contractor shall be required to extend the CPBG till the settlement of all claims and completion of all Contractual obligations at the cost and consequences of contractor.

6.6 In the event, in Company's sole judgement, the Contractor has fulfilled all its obligations under this Agreement, The CPBG shall be released without any interest after the expiry of CPBG and its claim period as mentioned above.

6.7 If the CPBG is or becomes invalid for any reason (other than its expiry),the Contractor shall immediately notify the Company/BYPL and provide within five(5)days a replacement CPBG in the form set out in the Contract/Agreement.

6.8 Not later than sixty (60)Business Days before the expiry of the CPBG, the Contractor shall, upon request of the Company/BYPL obtain extension of the validity of such CPBG for the period stated in such request by the Company/BYPL and provide a copy of such renewed CPBG.

6.9 It is Contractor's responsibility to incur charges/cost to maintain and for extension of CPBG without claiming reimbursement from the company/BYPL.

7.PAYMENT TERMS:

Payment shall be made to you as under:

7.1 80% payment shall be released on submission of bill and certification of work completion by Engineer-In-charge.The bill shall be paid within 30 days on receipt of such bills at our office.

7.2 10% payment shall be released on submission of Electrical Inspectorate's & QC clearance certificate.

7.3 Balance 10% payment shall be released on testing and commissioning of entire scheme, work completion certificate issued by our Engineer in charge.

7.4 The Invoice shall be processed and payment shall be made to contractor on certification of Engineer-In Charge for compliance to check point's given in check list.

7.5 The contractor shall submit original bill(hard copy)along with all supporting documents at Vendor Support Cell of BYPL.The bills shall be made in favour of BSES Yamuna Power Ltd, Shaktikiran Building Karkardooma, New Delhi - 110032.

7.6 Company shall make payments, without any interest/charges and after deduction of taxes, penalties as applicable, against the bills within 30 days from the date of receipt of the bills, duly verified and certified by Engineer-in-Charge.

7.7 Contractor shall, at no point of time, claim or have the right to claim any additional fees, expenses or charges of any nature whatsoever, other than the Rates set out in the contract.

7.8 The company may modify the procedure for the submission of bills. The Contractor shall be obliged to submit its bill as per the procedure stipulated by the company from time to time.

8.LIQUIDATED DAMAGES&PENALTY

8.1 In the event of any delay in completion of the work beyond the stipulated time given by in order due to reasons solely attributable to the Contractor, the Contractor shall pay to the Company liquidated damages.

8.2 If the Contractor failed perform the services within the time period specified in the order, the Company shall, without prejudice to its other remedies under the contract, deduct liquidated damages a sum equivalent to 2.0% of the billed amount of final work executed for each week or part there of delay until the actual date of completion up to a maximum deduction of 20% of billed amount of final work executed. Once the maximum is reached to Company may consider termination of contract without any liabilities to Company.

8.3 Penalty related to HR issues & ID Cards shall be applicable as defined in GCC.

8.4 Penalty for noncompliance of statutory regulations shall be applicable as defined in GCC.

8.5 Penalty for misconduct/failure in performance of task under the agreement shall be applicable as defined in GCC.

8.6 Penalty for violation of safety & quality norms shall be applicable as defined in Annexure IV, EHS Conditions of the Contract.

9.DERC GUIDELINES & REGULATIONS

The bidder shall make himself fully aware & familiarise with prevailing DERC guidelines / regulations.

10.INSURANCE POLICIES

The contractor shall take suitable insurance policy for its men and materials (Term Insurance for life, GPA, Medclaim policy, Workmen Compensation Policy etc.)as listed below for the resources deployed by him:

10.1 Group Personal Accident Insurance:

a) Term Insurance for life:

Before commencing the execution of the work the Contractor shall take TermInsurance Policy for life for the staff engaged/deployed by them for the work under agreement, to insure against any loss of life which may occur during the agreement for the work of the Company. The policy shall have coverage of Rs. 10 Lakhs.

b) Group Personal Accident Insurance:

Before commencing the execution of the work the Contractor shall take Accidental insurance policy for the staff engaged/deployed by him for the work under agreement, to insure against any loss of life which may occur during the agreement for the work of the Company. The policy shall have coverage of Rs. 5 Lakh (Table C- Death + Permanent Total Disability + Partial permanent Disability due to external accidents). Permanent total disability coverage shall be 125% of the basic sum assured of Rs 5 Lakh.

The Contractor shall be responsible for on the spot same day claim settlement with the victim's legal heirs without waiting for settlement by insurance claim and without any liability on BYPL. The premium amount for both the above policies shall be borne by the Contractor. The Contractor shall furnish copy of policy within 15 days of start of work under the contract.

10.2 Medical Insurance Policy:

Contractor shall take a medclaim policy including family floater of minimum sum assured value Rs. 2.00 lakhs for the resources who are not covered under ESI.

10.3 Comprehensive Marine Storage cum Erection insurance policy:

Company shall take at his own cost Comprehensive Marine Storage cum Erection insurance policy for the total work. However, Contractor shall take at his own cost third party insurance and other suitable insurance policy for his own men and materials. Please note that these insurance policies shall be taken in consultation with the company and a copy of the such insurance policies shall have to be furnished to company within 15 days of the date of LOI/Order.

10.4 For all the insurance policies (whether taken by the Company or Contractor), the Contractor

shall be responsible for settlement of claims with the underwriters without any liability on the company and will arrange replacements/rectification expeditiously without a waiting settlement of insurance claim, at contractor's own cost and this shall not entitle the Contractor for any extension of time.

11.WARRANTY/DEFECT LIABILITY PERIOD

The Contractor shall be liable to rectify all defects in the materials or works done by the Contractor under this Contract, or from any act or omission of the contractors for a period of Twelve(12)months from date of final work completion certification by the Engineer in- charge.

If any defect noticed and system cannot be used by reason of any defect, the defect liability period shall be extended by the period equal to the period during which the system is not in operation. In respect of any warranty work performed by the Contractor, the period during which a claim may be made for such warranty work shall be extended by an additional period of twelve (12) months from the completion of such portion of warranty work.

SECTION – IV : GENERAL CONDITIONS OF CONTRACT (GCC)

SECTION – IV**GENERAL CONDITIONS OF CONTRACT (GCC)**

This GCC shall form an integral part of the Agreement and will be of full force and effect as if they were expressly set out in the body of the Agreement.

Reference to any legislation or law to any provision thereof shall include references to any such law as it may, after the date hereof, from time to time, amended, supplemented or re-enacted, and any reference to a statutory provision, shall include any subordinate legislation made from time to time under that provision.

1. DEFINITION & INTERPRETATION**1.1 Definition**

In the Agreement (as defined below) the words and expressions defined below shall have the meanings assigned to them herein except where the context requires otherwise:

- 1.1.1 “Accounting Year” means the financial year commencing from 1 April of any calendar year and ending on 31 March of the next calendar year.
- 1.1.2 “Applicable Laws” means all Law / Laws in force and effect, as of the date hereof and which may be promulgated or brought into force and effect hereinafter in India including any revisions, amendments or re-enactments including without limitation regulations, rules and notifications made there under and judgments, decrees, injunctions, writs and orders of any court or regulators or quasi-judicial body or any appropriate authorities, as may be in force and effect during the subsistence of the Contract. It includes Law/Laws of Country/State legislation, statues, ordinance, notification, circular, regulations and other Laws, and bye Laws of any legally constituted public authority.
- 1.1.3 “Change in Law” means the occurrence of any of the following after the execution of agreement:
- (i) The enactment of any new Indian Law;
 - (ii) The repeal, modification or re-enactment of any existing Indian Law;
 - (iii) The commencement of any Indian Law which has not entered into effect until the date of performance the Contract;
 - (iv) Change in the interpretation or application of any Indian Law by a court as compared to such interpretation or application twenty-eight (28) days prior to the last date of submission of Tender;
 - (v) It also includes changes in the tax rates upward or downward.
- 1.1.4 “Change in Service” means any addition to, deletion from, suspension of or other modification, to the Services, or to the quality, function or as delineated in this agreement, including any such addition, deletion, suspension or other modification, which requires a change in one or more of the service specification and the completion schedule.
- 1.1.5 “Communication” means instruction or information or written notice issued on letter head or through electronic mail exchange between Parties and excludes verbal or short messaging services (SMS). The notice shall be served by delivering a copy by electronic mail, or registered post/speed post etc. Unless otherwise stated in the agreement, all communications to be given under the Contract shall be in writing. Communication may be sent to competent authority or authority delegated to such officer/employee. Communication shall be on letter head of Party signed by competent authority/authorized signatory of the Party.

- 1.1.6 **“Company/Owner/Purchaser/First Party ”** the terms used in this agreement shall refer to BSES YAMUNA Power Limited (BYPL) having its office at Shakti Kiran Building, Karkardooma, Delhi-110032 and shall include its authorized representatives, agents, successors and assignees.
- 1.1.7 **“Contractor/Agency/Vendor”** means the successful bidder to whom this Agreement is awarded. It is entity named in the Execution Cover and includes assignees, administrator, executors, successors, associated company/subsidiary/joint venture/firm/representative of the Contractor. It is also termed as ‘Contractor’ or ‘Agency’.
- 1.1.8 **Contract” /” Agreement/”Work Order”** means the agreement between the Company and the Contractor for the performance of the Services, including the Contract / Agreement/ Work Order duly signed and executed between the Parties, the letter of acceptance, the Conditions of Contract, the schedules, Annexures, the Company/BYPL’s requirements, including but not limited to the tender, other tender documents and such further documents which are listed in the Contract / Agreement/Work Order and includes any amendment thereto made in accordance with the provisions hereof giving binding effect to the terms and conditions agreed by the Parties. This includes Work Order / Letter of Intent(LOI) issued to the Contractor by the Company/BYPL.
- 1.1.9 **“Agreement Period”** shall mean duration of Services to be performed and includes extension thereof after mutual consent of both Parties.
- 1.1.10 **“Agreement Value/Consideration”** means the price of the defined Services including taxes payable to the Contractor for the performance of the Services subject to such additions thereto and deductions there from as may be made under the provisions of this Agreement. The Agreement Value is in consideration of providing the Service by the Contractor as per scope of work and as per Service specifications stipulated in the Agreement; the Agreement Value includes all and any fees, charges, local cess, taxes (GST and Income Tax), levies together with all cost and expenses. The Agreement Value may also term as ‘Service Fee(s)’ or ‘Agreement fees’/Consideration elsewhere in the Agreement. Agreement Value is fixed lump sum for the Agreement Period unless mentioned in Agreement elsewhere.
- 1.1.11 **“Force Majeure”** shall have the meaning as ascribed in this agreement and annexures thereto.
- 1.1.12 **“Good Industry Practice”** means the exercise of the highest degree of skill, diligence, prudence and foresight in compliance with the obligations under the Contract which would be expected from a skilled and experienced Contractor engaged, being internationally accepted and customized in day to day performance in industry including for the supply of Manpower.
- 1.1.13 **“HSE Conditions”** shall mean the BYPL’s health, safety and environment conditions containing the requirements and conditions to be met with respect to safety, health and environment.
- 1.1.14 **“KPI”** shall mean Key Performance Indicator as set out in the Contract/Agreement, its schedules/annexures etc. The performance of the Manpower employed by the Contractor for execution of Services shall be measured through KPI. The payment to Contractor shall be based on Manpower’s performance as measured through KPI. It includes metrics in numerical, frequency and measuring process. Total manpower shall be monitored & calculated skill wise but it will be cumulative on monthly basis
- 1.1.15 **“Manpower”** means a person/s, labour (including Contractor’s staff / personnel) known, introduced, security personnel employed and deployed by the Contractor in Contractor’s provision of the Services who has skill, efficiency and mannerism to execute, perform Services under this Contract as per Scope Of Work of the Contract. The Manpower deployed shall have valid licenses, PAN card details / KYC information.
- 1.1.16 **“Contract cum Performance Bank Guarantee (CPBG)”** means the bank guarantee to be procured in accordance with terms of agreement for the performance of the Contractor’s obligations under the Contract. The CPBG format is furnished in the Annexure, annexed to agreement.

- 1.1.17 "Service(s)" / "Works" shall mean Company/BYPL's requirements describing in detail including the nature of the Services and activities to be performed by the Contractor and its Manpower, in accordance with specifications, the duration of such requirement, and Services performed, the expected time of commencement and completion, detailed responsibilities and other relevant particulars. It is 'scope of work' which is to be executed, performed successfully and satisfactorily by the Contractor in accordance with the Contract and ancillary services as may be Communicated by the BYPL from time to time under the Contract Period.
- 1.1.18 "Site" means the designated place/office or establishment or construction site, office, branch, including right of way and/or places provided by the BYPL where the Services is to be executed and any other place as may be specifically designated in the Contract/Agreement as forming part of the Site or designated as such by the Company/BYPL.
- 1.1.19 "Sub-Contractor" means a Sub-Contractor whom a part of the Contract is Sub Contracted by the Contractor with the prior written approval of the Company/BYPL, and the permitted legal successors in title to such person, but not any assignee of such person.
- 1.1.20 "Sub-Contract" shall mean obligations under the Contract have been awarded by the Contractor to Sub-Contractor.
- 1.1.21 "Tax Invoice" /" Running Bill" (RA Bill/bill) shall have the meaning ascribed to it under GST Laws.

1.2 Interpretation

In the Contract except where the context requires otherwise:

- 1.2.1 Words indicating one gender include all genders
- 1.2.2 "Written" or "in writing" means hand-written, written, or electronically made and resulting in a permanent record
- 1.2.3 Any reference to any provision of an act of Parliament or of a state legislature shall be construed, at the particular time, as including a reference to any modification, extension or re-enactment thereof, to all instruments, orders or regulations then in force
- 1.2.4 The singular shall include plural and vice versa, and words denoting natural persons shall include partnerships, firms, companies, corporations, joint ventures, trusts, associations, organizations or other entities
- 1.2.5 The headings are inserted for convenience and shall not limit, alter or affect the meaning of the Contract.
- 1.2.6 The terms defined in schedule and the BYPL's Requirements shall have the same meaning ascribed thereto when used elsewhere in the Contract and vice versa;
- 1.2.7 The words "include" and "including" shall be construed without limitation
- 1.2.8 The schedules/annexures shall form an integral part of the Conditions of Contract and shall be in full force and effect as though they were expressly set out in the body of the Conditions of Contract.
- 1.2.9 The word "consent" wherever used, shall mean prior written consent;
- 1.2.10 In the event any portion or all of the Contract is held to be void or unenforceable, the Parties agree to negotiate in good faith to arrive at an amicable understanding which shall accomplish the intent of the Parties as originally set forth in the Contract;
- 1.2.11 No failure on the part of any Party to exercise, and no delay in exercising, any right hereunder shall operate as a waiver thereof, and no single or partial exercise of any such right shall preclude any other or further exercise thereof or the exercise of any other right
- 1.2.12 References to recitals, Articles or schedules in the Contract shall, except where the context otherwise requires, be deemed to be references to recitals, Articles and schedules of or to the Contract; and

- 1.2.13 In case the day on or by which any thing is to be done is not a Business Day, that thing must be done on or by the immediately occurring next Business Day

2. PRIORITY OF CONTRACT DOCUMENTS

The several documents forming the Agreement are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies, the same shall be explained and adjusted by the company, who shall, accordingly, issue suitable instructions thereon to the Contractor. In such event, unless otherwise provided in the agreement or explained by way of instructions by the company, as mentioned above, the priority of the documents forming the Agreement shall be as follows:

- i) Contract Agreement/Work Order.
 - (a) Special Conditions of Contract
 - (b) General Conditions of Contract
- (ii) The Letter of Acceptance/ Intent
- (iii) Agreed Minutes of the Tender Negotiation Meetings
- (iv) Agreed Minutes of the Tender Technical Meetings
- (v) The Priced Bill of Quantities
- (vi) The Technical Specifications / Scope of work
- (vii) The Tender document, including all Appendices and/or Addenda, Corrigendum the latest taking precedence.

In the event of any conflict between the above-mentioned documents, the more stringent requirement or conditions which shall be favorable to the company shall govern and the decision of company/BYPL shall be final and binding upon the parties.

3. AMENDMENT

Any modification, amendment or other change to the Agreement shall be affected only by a written instrument signed by the authorized representatives of both, the Company and the Contractor.

4. LANGUAGE AND MEASUREMENT

All correspondence and documents relating to this order placed on the Contractor shall be written in English language. Metric System shall be followed for all dimension, units etc.

5. EXAMINATION OF SITE & LOCAL CONDITIONS

The contractor is deemed to have visited all the sites that comes under Company's licensed area under the Contract and therefore, ascertained all site conditions and information pertaining to the services to be provided under this contract. The company shall not accept any claim whatsoever arising out of the difficulties at site/terrain/local conditions, if any.

6. TAXES & DUTIES

- (i) Prices shall be inclusive of all taxes and duties including labour cess (except GST). However, Income Tax(TDS) as per applicable rate in accordance with Income Tax Act will be deducted from contractor's bills.
- (ii) GST at actual shall be paid extra on submission of GST Registration and self-declaration on Contractor's letter head stating that you have deposited/or will deposit the Tax as per the applicable GST laws. Contractor shall furnish its GST registration number.
- (iii) Any statutory variations i.e. increase/decrease in Taxes / Duties introduced by central Govt. / State Govt. shall be reimbursed/recovered to/from Contractor against documentary evidence and proof.
- (iv) As Per Notification No. 39/2021 # Central Tax dated 21st December, 2021 w.e.f 01/01/2022 registered person (ie, Recipient/Purchaser) can avail tax credit on those invoices only which have been reflected in GSTR 2A or GSTR2B (it means 100% matching of invoice is required). Also, GST has to be deposited by Supplier/Contractor by filing of GSTR- 1 and GSTR-3B.
- (v) In view of above, if the same is not complied with by the supplier/Contractor and the Recipient/Purchaser is not in position to avail / utilize Input Tax Credit due to non-compliance or non-filing of GSTR-1 and GSTR-3B for the month/quarter (as applicable) in which the supply was made, then Recipient/Purchaser has right to hold 100% GST amount from next payment due of the subsequent month till the time default is not cured.
- (vi) For releasing of the payment kept on hold on account of non-compliance of GST Act, supplier/Contractor shall submit payment proof i.e GST Portal screenshot reflecting name of Recipient/Purchaser alongwith GSTR-1 and GSTR-3B for month/quarter (as applicable) in which the same has been discharged. Payment shall not be released, till the time necessary proof showing the discharge of GST liabilities by the contractors for the period in default are submitted to the Company.
- (vii) Further, the recipient/purchaser shall also be entitled to recover any financial loss suffered by the Company (including tax, interest, penalty and lapse of input credit) due to non-compliance or non-filing of GSTR-1 and GSTR-3B by the supplier/Contractor.
- (viii) In case where delivery of goods is being made on FOR site basis, the Supplier/Contractor is responsible to comply with rules applicable for E-way bill. Any violation in provision of E-way Bill will attract penalty and seizure of Transit Material. Any Penalty and Pre-Deposit due to violation of rules/provision shall be paid and borne by Supplier/Contractor. Also, Supplier/Contractor is responsible to get the goods released from the concerned authority. Delay in supply due to seizure of goods shall attract liquidated damages as per Order / Agreement provisions.

7. PAYMENT

- 7.1. Subject to the Contractor fulfilling its obligations under the Contract, the Company shall pay to the Contractor the Contract Value as per the terms of the Contract. The Company shall, notwithstanding any provision to the contrary included in the Contract, be entitled to deduct from and/or set off against any amount due or become due, whether related to this contract or other contracts awarded to contractor. However, any and all amounts which the Contractor is liable to pay to the Company, the contractor shall make payment as per the agreed schedule to avoid any set off / deductions.
- 7.2. Subject to the provisions of the Contract, the Contractor shall submit to the Company, monthly on-account Running Bills on or before the 10th of every month in respect of the Services executed by the Contractor in the preceding month. If the Contractor fails to submit any Tax Invoice (Running

Bill) by the 10th of any month, then the Company shall have the right to consider such Tax Invoice (Running Bill) only in the immediately succeeding month. The Running Bills shall only be for such Services, as, in the opinion of the Company, the Contractor has executed in accordance with the Contract, based on the certification of Services by the Company in accordance with the Contract. Within 30 days from the receipt of correct Running Bill along with relevant documents, payment shall be released to Contractor's designated bank account through RTGS /online payment as per payment terms under the Contract.

- 7.3. The Running Bills to be submitted by the Contractor shall be in the format approved by the Company. Each Running Bill submitted by the Contractor under the Contract shall be supported with relevant documents as instructed by the Company from time to time. On receipt of the Running Bill by the Company, the Company shall scrutinize the same to check for any errors and to verify that the amount claimed under the Running Bill is in conformity with the Contract. The Running Bill shall be payable only after certification of Service(s) and approval of the Running Bill for payment by the Company.
- 7.4. All monitoring, measurement, billing & payment processes shall be on IT enabled platform of BYPL as per Company's guidelines issued from time to time and bidders to ensure adherence.
- 7.5. Contractor shall upload correct monthly running bills along with all supporting documents in online BTS (Bill Tracking Systems) software or any other IT enabled platform of BYPL as per Company's guidelines issued from time to time for certification / approval purpose and bidders to ensure adherence.
- 7.6. The Contractor shall ensure that their billing documents support cost / expenses booking at Divisional level / Sub Divisional level as required by the Company.

8. TAX INVOICE SUBMISSION PROCEDURE AND CERTIFICATION

- 8.1. Tax Invoice shall be submitted to the Company for certification. Contractor must pay due attention for submission of Tax Invoice in time and along with relevant Documents to Company.
- 8.2. Tax Invoice shall be certified by Company after verifying relevant original Documents submitted by Contractor. If original Document associated with Tax Invoice is misplaced or lost during transit or for any genuine reason(s) attributable to Contractor, the reason(s) should be informed to Company in writing in stipulated period as instructed by Company. A true copy of certified Document with an indemnity bond or Bank Guarantee, as the case may be, must be submitted in the format provided by the Company.
- 8.3. Incomplete Tax Invoice will not be considered for processing of payments in terms of the Contract. Company reserves right to recover payable amount or part of Tax Invoice from available financial security or other dues of the contractor with the Company. Contractor shall be paid in terms of the Contract based on certification of Tax Invoice along with associated relevant Document(s) by the Company only.

9. TIME ESSENCE OF CONTRACT

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Time is the essence of the contract and the contractor shall be responsible for performance of his works in accordance with the specified schedule. If at any time, the contractor is falling behind the schedule for reasons attributable to him, he shall take necessary action to make good for such delays by increasing his work force or by working overtime or otherwise to accelerate the progress of the work and to comply with schedule timelines and shall communicate such actions in writing to the company, to the satisfaction of the Company that his action will compensate for the delays. The contractor shall not be allowed any extra compensation for such actions.

Time shall be the essence of the Contractor. Contractor shall complete his work in accordance with the specified time-lines/ Schedules as per the terms of the contract or as may be instructed by the Company from time to time.

10. LIQUIDATED DAMAGE

- 10.1. Contractor shall ensure that the work under the agreement is carried out in accordance with the terms and conditions of the agreement. The decision of the authorized personnel / Engineer – in-charge as regards performance of the contract will be final and binding. If the work under the agreement is not carried out to the satisfaction of the authorized personnel/Engineer – in-charge of BYPL including events of delay for reasons attributable to the Contractor, the Contractor shall be liable to pay and/or reimburse to the Company a sum:
- a) Equivalent to charges for completion /rectification of work plus 30% overhead charges, which will be recovered from the Contractor's invoice/outstanding payment/CPBG;
 - b) Equivalent to the penalties defined in various clauses of tender/contract.
- 10.2. The parties agree that the above amounts, including the amounts set out in the provisions relating to the penalty, are a reasonable estimate of the additional expenses required to be incurred by the Company due to the breach by the Contractor of the terms and conditions of this agreement. The Company shall be entitled to set off the entire amounts due from the Contractor against the amount payable by Company to the Contractor and CPBG.

11. PERIOD OF MOBILISATION

Contractor shall mobilize its resources to carry out the assigned services under this Agreement immediately/in advance so that services are made available from the date of start.

12. OPENING OF SITE OFFICE:

The Contractor shall also open and maintain a site office in the area and depute its authorized representative there.

13. ACCESS TO THE SITE

- 13.1. The Company shall provide to Contractor the right of access to the Site progressively for the Execution of the Works. The Contractor acknowledges that its access to the Site shall not be

exclusive to the Contractor but subject to the restrictions as contained in the Contract as well as the following:

- (a) Any public passage or right existing over any part of the Site from time to time;
- (b) The rights and obligations of persons or authorities under any Applicable Laws; and
- (c) The rights of the Company's Representative, Consultants or any other representative of the Owner or any statutory authorities to have access to the Site for inspection of the Works

13.2. If the Contractor foresees any delay in the Execution of the Works due to failure on the part of the Company to provide right of access to the Site, the Contractor shall immediately give written notice to the Company's Representative substantiating its claim for any delay in the execution of the works due to delay in providing the Site. After receipt of such notice, the Company's Representative shall determine extension of time, if any, to be granted to the Contractor and notify the Contractor accordingly. The Contractor acknowledges and agrees that it shall not be entitled to any monetary claim under any circumstances whatsoever due to any delay in handing over of the Site by the Company.

13.3. The Contractor shall not demolish, remove or alter any structures or other facilities on the Site without the prior written approval of the Company's Representative. The Contractor shall further ensure that all garbage resulting from the Execution of the Works is removed or disposed off, in accordance with Applicable Laws.

14. INSPECTION & QUALITY CONTROL

Inspection shall be performed by BYPL or its appointed authorized inspection agency. The contractor at his sole expenses shall correct defective works. Such rectification needs to be done / completed within the timelines specified by BYPL.

15. DEMOBILISATION/ HANDOVER ON CONTRACT COMPLETION

15.1. The contractor shall ensure that all the premises/equipment/services are in good working condition and are with full configuration while handing over back to the Company/new Contractor at the end of the contract.

15.2. The demobilization/ handover period will be a period of upto 30 days starting from the date of expiry of the contract. The Contractor shall have to complete the demobilization process including closing all pending calls, and handing over all site-related information to the new Contractor/BYPL during this period.

15.3. Within 30 days of the expiry of the contract, the Contractor's representative and BYPL's representatives or the new Contractor may carry out a Joint survey/physical inspection to identify the status of the premises / equipment/services at their locations. If any of the premises/equipment/services are found non-working/ irreparable/unsatisfactory, it is the responsibility of the contractor to make the same good as part of the existing contract.

15.4. No payments shall be admissible for the demobilization period/activities.

- 15.5. In case the Contractor is not able to close the pending work as identified in Joint survey/physical inspection during the demobilization period, BYPL at its sole discretion can get the work done /Services rendered/ equipment restored/ repaired/substituted by new Contractor/the third party at the risk and cost of the Contractor and the same will be deducted/recovered from the bills of the contractor or the security amount, CPBG, retention amount or otherwise as per terms of the contract and no claim from the Contractor's side , of any nature, including the claim citing the award of work to third party and consequences thereof, shall not be maintainable.
- 15.6. Payments for the last month shall be cleared only after all the pending works have been closed successfully as indicated above.
- 15.7. Ceiling on deductions/penalty stipulated in this contract, if any, shall not be applicable on deductions stipulated herein during demobilization/ handover on contract completion.

16. REPORTS AND INFORMATION

The Contractor shall be obliged to submit or furnish to Company, all or any information as desired by company, in the form of a report or otherwise. The report may be required at regular interval as specified/required by company. The information shall be provided in a format to be specified by the company to the Contractor. However, company, reserves the right to revise this format which would be communicated to the Contractor and it shall be valid and binding obligation on the Contractor to submit the desired information in the revised format.

17. STATUTORY OBLIGATIONS

The Contractor shall ensure the due compliance of all the applicable statutory acts, including but not limited to the following acts, where special attention of the Contractor is required to be drawn towards the compliance of provision (along with the latest amendments/additions)including any statutory approval required from the Central/State Governments, Ministry of Labour.

- The Child Labour (Prohibition and Regulation) Act, 1986.
- The Agreement Labour (Regulation and Abolition) Act, 1970.
- The Employee's Pension Scheme, 1995.
- The Employee's Provident Funds and miscellaneous provisions Act, 1952.
- The Employees State Insurance Act, 1948.
- The Industrial Disputes Act, 1947.
- The Maternity Benefit Act 1961.
- The Minimum Wages Act, 1948.
- The Payment of Bonus Act, 1965.
- The Payment of Gratuity Act, 1972.
- The payment of Wages Act, 1936.
- The Delhi Shops & Establishment Act, 1954.
- The Workmen's Compensation Act. 1923.
- The Company's Liability Act, 1938.
- The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013

- The Delhi Preservation of Trees Act 1994

Further the Contractor shall be liable to comply with all the amendment in existing acts / upcoming new comprehensive labour acts/codes related to applicable labour laws.

The Contractor shall, prior to commencement of the jobs under this agreement, furnish to the Company the Registration No and Codes of permanent Provident Fund and ESI of its employees.

Contractor shall bear the entire responsibility, liability and risk relating to coverage of its workforce under different statutory regulations including Workmen's Compensation Act, ESI Act, Factories Act 1948, the Agreement Labour (Regulation and Abolition) Act 1970, as amended from time to time, and any other relevant laws/regulations as the case may be. Contractor shall also be solely responsible for the payment of all benefits such as Provident Fund, Bonus, Retrenchment Compensation, leave etc. applicable as per the various statutory laws/regulations and shall keep the Company indemnified in this regard against any claim. The Company shall be entitled to deduct from any money due to or become due to Contractor, any money paid or payable by way of compensation as aforesaid or cost or expenses in connection with any claims thereto and Contractor shall abide by the decision of the Company as regards the sum payable by Contractor under the provisions of this clause

The Contractor shall obtain all registration/permissions licenses etc., which are/may be required under any labour or other legislations for providing the services under this Agreement.

Contractor shall take insurance policy under the Workmen Compensation Act to cover workers, not covered under ESI Act 1948, engaged by it and Accident Liability Insurance for its employees for payment of compensation on account of injury, fatal or otherwise due to accident during service. Copies of these insurance policies will be submitted to company for reference and records and these insurance policies shall be kept valid at all times.

In case it is desired by any Labour authorities to produce the records with respect to salary/ PF/ESI/EDIL/Bonus etc, the said record/register will be made available by the Contractor.

The contractor shall follow all law of the land and prevailing orders issued by various Govt Departments like Dept of Power / DERC/ NGT/Dept of Forest/ Dept of Environment / DPCB / CPCB/ Court orders etc.

18. PENALTY FOR NON-COMPLIANCE OF STATUTORY REGULATIONS

If any non-compliance of any Statutory Obligation is observed then an amount equivalent to 1.5 times of the value of the non-compliance will be retained from outstanding (monthly) payment bill, however; if non-compliance is continued, penalty will be levied as follows:

- a. Retained amount will be converted into penalty if Non-compliances are not closed within 60 days
- b. Termination of agreement in case non-compliances are not cleared after show cause in writing.
- c. The imposition of the penalty is without prejudice to the BYPL's right to terminate the Contract.

The closure of the work and final settlement of the contract order shall be effected only after issuance of NOC by BYPL.

19. PENALTY FOR MISCONDUCT/FAILURE IN PERFORMANCE OF TASK UNDER AGREEMENT

- 19.1. The Contractor and its manpower shall adhere to all code of conduct/Schedule/SOP/Instructions associated with the task to be performed under the agreement.
- 19.2. During the period of validity/execution of task under agreement, the behavior of manpower deputed by Contractor shall be entirely professional and shall not commit any misconduct.
- 19.2.1.1. Misconduct shall refer to the following:
- Interaction with the customer in a non-professional way, including any form of verbal/physical abuse to customer or misuse/damage/tempering of premises and/or meter.
 - Any form of harassment to customer i.e. asking for bribes, reaching customer premises outside the defined working hours, asking the customer for any favours etc.
 - Additional interaction with customer not under purview of task to be performed under agreement.
 - Provide other customer services with or without a charge unless directed by BYPL.
 - Accessing BYPL's IT Infrastructure within data centre or anywhere else, in BYPL premises.
 - The contractor's deputed manpower do not wear the uniform as per the terms and conditions of the contract during the performance of services under the contract.
- 19.3. BYPL shall conduct audit and quality checks on the activities to be performed by Contractor and/or the personnel deputed by Contractor under Agreement on a periodic basis, to ascertain the overall quality and performance of field activities.
- 19.3.1. Any complaints received by BYPL either directly from the customer or observations through audit or any other sources shall be reviewed by BYPL. The decision of the committee on the final action on Contractor shall be binding.
- 19.4. **PENALTY FOR MISCONDUCT**
- (a) The penalty to be imposed in case of misconduct shall be as follows:
In case of any misconduct as defined above, a penalty of Rs 5000/- per incident shall be levied.
- (b) In case of multiple incidences of Misconduct:
- 4 complaints per annum OR
 - more than 1 complaint in a quarter
- An additional penalty of Rs 20,000/- shall be levied and possible termination of the contract.
- 19.5. The person responsible for such incidence of misconduct must be immediately removed by Contractor from Company's services under the contract and should also never be deployed for providing any other services to the Company. If needed contractor shall file police FIR against such person
- 19.5.1. The Contractor shall collect the following documents from the manpower deputed under this agreement, within two weeks of mobilization and shall deposit the same with BYPL as & when demanded, as follows:
- Educational Qualification Certificate: Certificate and mark-sheet of all manpower demonstrating the highest educational qualification of all personnel, making them competent for the task assigned.

- (ii) Permanent Address Proof: Supporting document for permanent address proof of all personnel.
- (iii) Identity Proof: Copy of PAN/Aadhar card should be submitted as identity proof for all personnel.
- 19.6. Contractor shall deploy the manpower in mutual consultation with BYPL. BYPL reserves the right to reject deployed manpower, in case the same is not found suitable.
- 19.6.1. The Contractor shall conduct relevant background checks and prepare Background Reports through an authorized agency of all manpower deployed for the performance of task under agreement in BYPL within one month of deployment.
- Such reports shall be shared with BYPL as requested. Contractor shall submit an Affidavit clearly stating that back-ground check for all personnel is complete and back-ground reports have been prepared to this effect within one month of deployment.

20. STATUTORY PERMISSION/ APPROVALS

- 20.1. The Contractor shall take all steps as may be necessary to comply with the various applicable laws/rules including the provisions of agreement labour (Regulation & Abolition Act) 1970 as amended, minimum wages Act, 1984, Workmen Compensation Act, ESI Act, PF Act, Bonus Act and all other applicable laws and rules framed there under including any other statutory compliance/approval required from the Central/State Govt., Ministry of Labour.
- 20.2. The Contractor must also submit the following before award of First Work Order under agreement and these shall be renewed time to time:
- a) Certificate of registration under Contract labour (R & A) Act 1970.
 - b) PF Code No. and all employees to have PF A/c No. under PF Act, 1952.
 - c) All employees to have a temporary or permanent ESI Card as per ESI Act.
 - d) ESI Registration No.
 - e) GST registration number
 - f) PAN No.
 - g) Electrical License as applicable
 - f) Labour License under Labour Act (R & A) Act 1970. A copy of Labour License shall be deposited by Contractor with all Engineer-in-charge responsible for execution of the job before start of the work by the contractor, as per guidelines of HR department.)
- 20.3. The Contractor must follow/adhere/perform the following task:
- (a) To take Third party Insurance Policy before start of work.
 - (b) To follow Minimum Wages Act prevailing in the state.
 - (c) Salary / Wages to be distributed not later than 7th of each month.
 - (d) To maintain Wage- cum - Attendance Register.
 - (e) To maintain First Aid Box at Site.
 - (f) To Submit Latest P.F. and E.S.I. challans pertaining to the period in which work was undertaken along with a certificate mentioning that P.F. and E.S.I. applicable to all the employees has been deducted and deposited with the Authorities within the time limits specified under the respective

- Acts.
- (g) To frame and adhere the Workmen Compensation Policy in compliance with the law.
 - (h) To obtain Labour license before start of work.
 - (i) Registration of Contractors & Contractual Employees under Building & other Construction Worker Welfare Cess Act 1996 & The Building & \ other Construction Workers (Regulation of Employment & Conditions of services) Act 1996, as applicable
 - (j) Registration under “The Delhi Building and other Construction Worker (Regulation of Employment and Conditions of Services) Rules 2002(B.O.C.W.)”, as applicable

Before commencing the work it would be mandatory for the Contractor to furnish the Company the permanent PF code no and ESI of the employees.

- 20.4. Contractor ensures that Manpower deployed at the site must adhere to terms & conditions as set out in the Contract.
- 20.5. The Contractor shall give a written declaration / undertaking on or before 15th of the following month that he has complied with the following:
 - a) Has paid minimum wages to his manpower along with its proof.
 - b) Deduct and deposited ESI/PF contribution. Copy of the same shall be submitted
- 20.6. Contractor shall comply with all the amendments to existing acts, upcoming new comprehensive labour acts related to applicable labour law, wage code etc

21. PERMITS, LICENSES & APPROVALS

- 21.1. It shall be the Contractor's exclusive responsibility to obtain all requisite approvals, permits or licenses required for the performance of the Services. However, upon the request of the Contractor, the Company may, where it is necessary to do so, provide reasonable assistance to the Contractor, at the risk and cost of the Contractor, in applying for and obtaining such permits, licenses or approvals. Any delay in obtaining any such permits, licenses and approvals shall not relieve the Contractor from any of its obligations under the Contract.
- 21.2. The cost of obtaining the above mentioned permits, approvals and licenses and follow - up of the applications for such permits, approvals and license shall be borne by the Contractor.
- 21.3. It shall also be the Contractor's exclusive responsibility to obtain those requisite approvals, permits or licenses required for the performance of the Services which needs to be obtained by the Company. However, the cost of obtaining such permits, approvals and licenses shall be borne by the Company. Company shall provide reasonable assistance to the Contractor in applying for and obtaining such permits, licenses or approvals. Any delay in obtaining any such permits, licenses and approvals shall not relieve the Contractor from any of its obligations under the Contract.

22. REPRESENTATION, WARRANTIES AND GUARANTEES

- The Contractor hereby represents warrants and guarantees that:
- 22.1. It is a legally recognized entity under the laws of India;
 - 22.2. The Agreement contains valid and binding obligations and is enforceable in accordance with the terms hereof;
 - 22.3. It has studied the technical feasibility, Site conditions and other prevailing conditions and all other operational details and based on these studies carried out, has agreed to provide to the Company the services as contemplated in this Agreement;
 - 22.4. It has appraised itself of all applicable rules and regulations, and shall at all times comply with such rules and regulations;
 - 22.5. It shall procure vehicles and hire manpower suitable for the purposes of rendering services as contemplated in this agreement;
 - 22.6. The Services would be conducted in a safe and efficient manner at the Site and at all times in compliance with Good Industry Practices and requirements of the Company, and in any event, in accordance to this Work Order/agreement;
 - 22.7. It shall procure all consents, licenses, permits, approvals and certificates and authorizations as may be required from any governmental authority for the performance of services at the Site;
 - 22.8. It shall duly pay the duties, taxes and levies as are set out in this agreement or otherwise, which are to be paid by the Contractor;
 - 22.9. There is no action, suit or proceeding, at law or in equity, or to the best of knowledge of Contractor, any official investigation before or by any governmental authority, arbitration tribunal or other body pending or, to the best of its knowledge, threatened against or affecting it or any of its property, rights or assets, which could reasonably be expected to have material adverse effect on its ability to perform its obligations under this Agreement or on the validity or enforceability of this agreement.

23. EVENTS OF DEFAULTS

Company may, without prejudice to any of its other rights or remedies under the Contract or in law, terminate the whole or any part of this Contract by giving written notice to the Contractor, if in the opinion of Company, contractor has neglected to proceed with the Contracts with due diligence or commits a breach of any of the provisions of this Contract including but not limited to any of the following cases:

- 23.1. Failing to complete execution of Contract as per the terms and conditions specified in the Contract.
- 23.2. Failing to complete Contracts in accordance with the approved schedule of Contract.
- 23.3. Failing to comply with any reasonable instructions or orders issued by Company in connection with the Contract.
- 23.4. Failing to comply with any of the terms or conditions of this Contract.

- 23.5. In the event Company terminates this Contract, in whole or in part, on the occurrence of any event of default, Company reserves the right to engage any other vendor or agency to complete the Contract or any part thereof, and in addition to any other right Company may have under the Contract or in law including without limitation, including the right to penalize for delay under clause "Liquidated Damage" of this Contract, the contractor shall be liable to Company for any additional costs that may be suffered/borne by Company for the execution of the Contract.
- 23.6. Failure on the part of the Contractor to maintain its confidentiality obligations and or compromising its integrity, which are required to be of highest standards, in so far as the present scope of work is concerned.

24. RISK & COST

If the Contractor fails to execute the work as per specification/Agreement/as per the direction of Engineer-in-charge within the scheduled period and/or even after the extended period, the company shall be having the right to cancel/terminate the agreement and the company reserves the right to get the work executed from any other source at the Risk & Cost of the Contractor. The Extra Expenditure so incurred shall be debited to/recovered from the Contractor.

25. LIMITATION OF LIABILITY

- 25.1. The Contractor's liability (except Third Party Liability; covered under the agreement and addendums thereto) for all damages, losses, acts or omissions, howsoever occasioned, shall not, at any time exceed an amount equivalent to Contract Value.
- 25.2. Notwithstanding anything stated in the agreement, the limitation of Liability shall not be available/applicable in case of wilful default/breach/negligent act/misconduct on the part of the Contractor and/or its employees.

26. TERMINATION

26.1. TERMINATION BY COMPANY FOR NON PERFORMANCE

During the course of the execution, if at any time the Company observe and forms an opinion that the work under the order is not being performed satisfactory and the performance of the Contractor not found satisfactory, the Company reserves its right to cancel/ terminate this Agreement giving 30 days' notice without assigning any reason and the Company will recover all damages including losses occurred due to loss of time from the Contractor. On receipt of such notice the Contractor shall immediately stop all activities related to the work terminated. This is without prejudice to other rights under the terms of contract. The Contractor shall hand over the Company all drawing/documents prepared for this contract up to the date of cancellation of order.

26.2. PREMATURE TERMINATION

The order can be terminated by the Company before the expiry of its term under the following

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conditions:

- (i) The Contractor repudiates this order or otherwise evidences intention not to be bound by this order;
- (ii) The Contractor assigns, mortgages, or charges or purports to assign, mortgage, or charge any of its obligations or rights in contravention to the provisions of this order; or, transfers or negates any of its obligations in contravention to the provisions of this order.
- (iii) The Contractor breaches the Secrecy/Non-disclosure Clause/Confidentiality obligations.
- (iv) If at any stage during the tenure of the work order, Contractor is found to be involved or indulging or even attempting illegal, unlawful action or activities or some fraudulent or even trying to take or ask bribe from any customer or to give bribe official/staff or misuse or abuse any meter or property of the Company.
- (v) The Company shall be entitled to deduct from any money due or to become due to the Contractor, money paid or payable by way of compensation as aforesaid or cost or expenses in connection with any claims thereto. The Contractor shall abide by the decision of the Company as to the amount payable by the Contractor under the provision of this clause.

26.3. TERMINATION BY COMPANY FOR CONVENIENCE

The Company shall, in addition to any other right enabling it to terminate the Contract, have the right to terminate the Contract at any time without assigning any reason, by giving a written notice to the Contractor. The Contract shall stand terminated on receipt of such notice but such termination shall be without prejudice to the rights of the Parties accrued on and before the date of termination.

27. GOVERNING LAW AND ARBITRATION

- 27.1. Governing Law: This Work Order/Agreement shall be governed by the laws of India and each party submits to the exclusive jurisdiction of the courts in New Delhi.
- 27.2. Dispute Resolution Mechanism. All disputes and differences arising out of or in connection with this Agreement shall be resolved amicably by mutual discussion within 30 days. If the dispute cannot be resolved by mutual discussions and agreement, the parties will take such dispute to an arbitral panel comprising Sole Arbitrator jointly appointed by the parties to agreement.
- 27.3. In the event parties fail to appoint the sole arbitrator within 30 days from the date of request made by party, the Sole Arbitrator shall be appointed as per the provisions of The Arbitration and Conciliation Act 1996 as amended upto date. The arbitration shall be conducted in New Delhi in accordance with the provisions of the Arbitration and Conciliation Act 1996. The award of the arbitral panel shall be final and binding on all parties. The arbitration proceedings shall be conducted in English. The venue and seat of Arbitration shall be in Delhi Only. The cost of arbitration shall be shared equally between the parties unless otherwise directed by the Arbitrator.

28. FORCE MAJEURE

28.1. General

An "Event of Force Majeure" shall mean any event or circumstance not within the reasonable control, of the Party affected, but only if and to the extent that:

- (i) Such event or circumstance, despite the exercise of reasonable diligence, could not have been prevented, avoided or reasonably foreseen by such Party;
- (ii) Such event or circumstance materially and adversely affects the ability of the affected Party to perform its obligations under this agreement, and the affected Party has taken all reasonable precautions, due care and reasonable alternative measures in order to prevent or avoid the effect of such event on the affected party's ability to perform its obligations under this Agreement and to mitigate the consequences thereof. For the avoidance of doubt, if such event or circumstance would not have materially and adversely affected the performance of the affected party had such affected party followed good industry practice, such event or circumstance shall not constitute force majeure.
- (iii) Such event is not the direct or indirect result of the failure of such Party to perform any of its obligations under this Agreement; and
- (iv) Such Party has given the other Party prompt notice describing such events, the effect thereof and the actions being taken in order to comply the relevant clause

28.2. Specific Events of Force Majeure

Subject to the provisions of the agreement, Events of Force Majeure shall include only the following to the extent that they or their consequences satisfy the above requirements:

- (i) The following events and circumstances:
 - a. Effect of any natural element or other acts of God, including but not limited to storm, flood, earthquake, lightning, cyclone, landslides or other natural disasters, and\
 - b. Explosions or fires or flood
- (ii) Public disorder, insurrection, rebellion, sabotage, riots or violent demonstrations of a local character;
- (iii) Declaration of the Site as war zone.
- (iv) Any order, regulation, directive, requirement from any Governmental, legislative, executive or judicial authority.

28.3. Notice of Events of Force Majeure

If a force majeure event prevents a party from performing any obligations under the Agreement in part or in full, that party shall:

- (i) Immediately notify the other party in writing of the force majeure events within 2 working days of the occurrence of the force majeure event
- (ii) Be entitled to suspend performance of the obligation under the Agreement which is affected by force majeure event for the duration of the force majeure event
- (iii) Use all reasonable efforts to resume full performance of the obligation as soon as practicable
- (iv) Keep the other party informed of all such efforts to resume full performance of the obligation on a

- regular basis
- (v) Provide prompt notice of the resumption of full performance or obligation to the other party.

28.4. Mitigation of Events of Force Majeure

The Contractor shall:

- (i) Make all reasonable efforts to prevent and reduce to a minimum and mitigate the effect of any delay occasioned by an Event of Force Majeure, including applying other ways in which to perform the agreement;
- (ii) Use its best efforts to ensure resumption of normal performance after the termination of any Event of Force Majeure and shall perform its obligations to the maximum extent practicable as agreed between the Parties; and
- (iii) Keep the Company informed at regular intervals of the circumstances concerning the event of Force Majeure, with best estimates as to its likely continuation and what measures or contingency planning it is taking to mitigate and or terminate the Event of Force Majeure.

28.5. Burden of Proof

In the event that the Parties are unable in good faith to agree that a Force Majeure event has occurred to an affected party, the parties shall resolve their dispute in accordance with the provisions of this agreement. The burden of proof as to whether or not a force majeure event has occurred shall be upon the party claiming that the force majeure event has occurred and that it is the affected party.

28.6. Termination for Certain Events Of Force Majeure

If any obligation of any Party under the Agreement is or is reasonably expected to be delayed or prevented by a Force Majeure event for a continuous period of more than 1 (one) month during the Term of the Agreement, the Agreement shall be terminated at the discretion of the Company and neither Party shall be liable to the other for any consequences arising on account of such termination.

The Company reserves the right to demand the Contractor's services on holidays as well as beyond the normal working hours.

The Contractor will ensure that none of their person is engaged in any unlawful activities subversive of the Company's interest failing which suitable action may be taken against the Contractor as per the terms and condition of this order.

The Contractor shall be liable for payment of all taxes and duties as applicable, to the State/ Central Govt. or any local authority.

The Contractor's employees shall not be treated as Company's employees / persons for any purpose whatsoever & facilities/ benefits applicable to the Company's employees shall not be applicable to Contractor's employees. If due to any reasons whatsoever the Company is made liable to meet any obligation under any of the laws & enactment etc, for any reason whatsoever the same shall be recovered from the Contractor either from the present and future amount payable to him or as per law.

29. NOTICE & COMMUNICATION

Any notice or other formal communication to be given under this agreement shall be in writing and

signed by or on behalf of the party giving it and shall be sent by registered post, A.D. to the addresses of Contractor or BYPL as mentioned herein above or to any other addresses as agreed by the parties, in writing from time to time.

Any notice or other formal communication can also be sent through official e-mail ID of authorized person of Contractor or BYPL.

30. SAFETY CODE

- 30.1. The Contractor shall ensure adequate safety precautions at site, as required under the law of the land to facilitate safe working, during the execution of work under agreement/work order and shall be entirely responsible for the complete safety of their workmen as well as other workers at site and premises during performance of work under agreement.
- 30.2. The Contractor shall observe the safety requirements as laid down in the agreement and in case of sub-contract/assignment (only after written approval of company), it shall be the responsibility of Contractor that all safety requirements are followed by the employees and staff of the sub-contractor.
- 30.3. The Contractor employing two hundred employees or more, including employees deputed under agreement, shall have a safety officer in order to ensure the implementation of safety requirements of the agreement and if the Contractor having lesser number of employees, including agreement workers, shall nominate one of its employees to act as safety coordinator who shall liaise with the safety officer on matters relating to safety and his name shall be displayed on the notice board at a prominent place at the work site.
- 30.4. The Contractor shall be responsible for non-compliance of the safety measures, implications, injuries, fatalities and compensation arising out of such situations or incidents.
- 30.5. In case of any accident, the Contractor shall immediately submit a statement of the same with BYPL and the safety officer, containing the details of the accident, any injury or causalities, extent of properly damage and remedial action taken to prevent recurrence and in addition, the Contractor shall submit a monthly statement of the accidents to BYPL at the end of each month.
- 30.6. The contractor / safety officer shall be responsible for providing training to all staff & workers, safety compliances , testing and fitness of all T&P , PPE, annual safety audit reports etc in line with CEA norms

31. WORKMEN COMPENSATION

- 31.1. The Contactor shall take insurance policy at his own cost under the Workmen Compensation Act to cover such workers who are not covered under ESI by the Contractor however engaged to undertake the jobs covered under this order and a copy of this insurance policy will be given to Company for reference and records. This insurance policy shall be kept valid at all times. In case there are no worker involve other than those who are covered under ESI by the Contractor, the Contractor shall certify for the same.
- 31.2. The Contractor shall keep the Company indemnified at all times, against all claims of compensation under the provisions of Workmen Compensation Act 1923 as amended from time to time or any

compensation payable under any other law for the time being involving workmen engaged by the Contractor in carrying out the job involved and against costs and expenses, if any, incurred by the Company in connection therewith and without prejudice to make any recovery.

- 31.3. The Company shall be entitled to deduct from any money due to or to become due to the Contractor, moneys paid or payable by way of compensation as aforesaid or cost or expenses in connection with any claims thereto and the Contractor shall abide by the decision of the Company as to the amount payable by the Contractor under the provisions of this clause.

32. THIRD PARTY INSURANCE

The Contractor shall, before the commencement of work, take a Third Party Insurance of an adequate value, at his own cost and expenses, securing all the risks/losses/damages which may be caused to any third party and/or BYPL and/or its employees/associates, because of the omission/performance of tasks by the Contractor under this agreement. The full and final settlement of claims raised by third parties shall be the sole responsibility of the Contractor without any liability to BYPL.

It is further agreed by the Contractor that in case of defect/damage to the system because of default on the part of the Contractor, the Contractor shall, at its own cost, be liable to replace/rectify the same at the earliest or make good the loss suffered by BYPL

33. HUMAN RESOURCE ISSUES

- (A) The Contractor would execute the works under agreement through its own resources.
- (B) The Contractor shall bear all expenses/cost to be incurred towards salary, allowances, perks, travelling allowances, advances, insurance, safety measures, annual increment, security, transportation, conveyance reimbursement, telephone expenses, leave pay and all other misc. expenses etc. of their employees/ workmen during the validity/tenure of the Agreement or any renewed tenure thereto. Also, the Contractor shall be solely responsible for making payment for Hospitalization, Compensation thereof in case of any accident & injury.
- (C) The Contractor to deploy its manpower immediately for carrying out the work as specified in the tender document.
- (D) The Contractor shall ensure that there are no disputes regarding service, payment etc. of the persons engaged by it, anytime during the tenure/validity of the contract. At no point of time during the tenure/validity of contract, the Contractor's employees shall insist upon the Company for employment, wages, and allowances or any other related matter, payment etc.
- (E) The Contractor shall not deploy the manpower below the age of 18 years or above the age of 58.
- (F) The Contractor shall not deploy the female manpower between 7 PM to 6 AM.
- (G) The Contractor shall be directly responsible for any / all disputes arising between Contractor and its persons and keep the Company indemnified against all losses, damages and claims arising

thereof. The Contractor shall resolve all disputes of its manpower. All the legal dues of the manpower of Contractor is to be paid on or before due date as per applicable laws or within 8 days from date of the termination of manpower.

- (H) All safety wears required for the Contractor's manpower during the execution of work must be provided by the Contractor at its own cost and the Contractor shall ensure that its employees regularly use such safety gears.
- (I) The Contractor shall be responsible for discipline of its manpower and shall ensure that the personnel deputed should adhere to the disciplinary procedure set by the Company. The Contractor shall ensure that none of its associate/personnel is engaged in any unlawful activities or any other activity subversive of the Company's interest, failing which the same shall be termed as breach of the terms of agreement and annexures thereto and suitable action may be taken against the Contractor as per the terms & conditions of the Agreement. The Contractor will ensure that none of the manpower engaged by it will demonstrate before the offices of the Company in any manner whatsoever. In case any of the manpower engaged by Contractor is found indulging in such activities, the same shall be termed as breach of the terms of agreement and annexure thereto and the Contractor will take suitable action against such of their employees and submit the ATR with company.
- (J) The Contractor shall ensure compliance with minimum wage requirements of the correct category and shall ensure the following:
- (a) Timely payment of minimum wages to deployed manpower as per the rate notified from time to time by the Government of National Capital Territory of Delhi.
- (b) Compliance with all other relevant PF, ESI, Insurance and other laws as applicable per statute.
- (c) To retain Challans/Receipt issued by Statutory Authorities like Regional Provident Fund Commissioner (RPFC)/including its own Pension Provident Fund Trust for previous month & proof of payment towards compliance of other statutory provisions like E.S.I., GST etc.
- (d) Contractor will also produce challan/receipt with respect to payment of GST as a proof for such statutory payment.
- (K) Contractor shall comply with provisions of the Payment of Wages Act 1936, Minimum wages Act-1948, Employee's Provident Fund & Miscellaneous Provision Act 1952, ESI Act 1948, Company's Liability Act 1936, Industrial Dispute Act 1947, Maternity Benefit Act 1961, Contract Labour (Regulations & abolition) Act 1970, Delhi Shops & Establishment Act or any modification thereof, THE SEXUAL HARASSMENT OF WOMEN AT WORKPLACE (PREVENTION, PROHIBITION AND REDRESSAL) ACT, 2013 or any other Act relating to rules made hereunder from time to time. For the said purpose the Contractor shall get itself covered under the Employee's Provident Fund & Miscellaneous provision Fund 1952 & ESI directly with the appropriate Regional Provident Fund Commissioner, if not done so far and shall intimate to the Company the Code No. allotted by the RPFC & ESI Authorities within one month from the date of commencement of the work under agreement.
- (L) Contractor shall organize periodic awareness session on POSH, 2013 and strict compliance to POSH, 2013.
- (M) Contractor shall have a detailed HR policy for retirement, training, safety, job suitability, health etc.

for it's employees. Further the Contractor shall have proper grievance redressal process for addressing HR issues raised by it's employees.

(N) ID CARD:

The Contractor will not issue any ID cards to the manpower deputed under agreement, on its own. All ID Cards for the workforce will be issued by BYPL Security ID Card Cell only. The Contractor should maintain the records of Identity Cards of their employees and whenever any employee quits/is removed then his/her Identity card should be collected & submitted to BYPL Security ID Card Cell. Penalty will be imposed on the Contractor in case of violation of the above rule. Contractor shall submit the details/ list of the employees that they are going to be deputed with BYPL Security before the commencement of the work under agreement.

The penalty clause related to employee's ID card shall be as under:

- (i) It is agreed by the Contractor that within five (5) days from the commencement of agreement/ date of award of work order/ date of renewal of agreement, the Contractor shall be bound to intimate BYPL, the details of manpower deputed by Contractor for the performance of task under this agreement in BYPL specified format.
- (ii) It is agreed by the Contractor that in case of change of manpower deputed by the Contractor under this instant agreement, the Contractor shall, promptly but not later than twenty four (24) hours of such change, intimate BYPL in writing about the said change and submit the revised details in the BYPL specified format.
- (iii) It is further agreed by the Contractor that it shall, promptly but not later than seven (7) working days from the commencement of agreement/ date of award of work order/ date of renewal of agreement, ensure the issuance of the photo identity cards, issued by BYPL Security, to all the personnel deputed by the Contractor. The ID Cards shall also bear the name of the Company/ Contractor, the contact details of the personnel and the Company and shall ensure that all the personnel, during the performance of task under the agreement, shall wear/ display those ID Cards.
- (iv) In addition to the events of default as specified in the agreement and annexures thereto including as specified above, it has been agreed by the parties to the agreement that the following events shall also be counted as events of default and the Contractor shall ensure not to commit the same:
 - (a) of staff found working without valid ID Cards (ID Cards issued by BYPL Security) / Not carrying ID cards to the workplace.
 - (b) of staff carrying validity lapsed (expired) ID Cards as against the number of staff billed for
 - (c) of staff found carrying Contractor issued ID Cards, instead of through BYPL Security - CONTRACTORS cannot issue ID cards for the manpower deployed on BYPL work.
 - (d) That the failure by the Contractor in compliance of the terms stated in section above and/ or the commission of defaults as notified above, i.e. non issuance of ID Cards, non-display of ID Cards by the personnel of the Contractor and/ or the commission of any of the defaults, shall attract an agreed penalty for the sum of Rs. 1000/- per person per day and the same shall be deducted/recovered from the monthly bill of the Contractor, without any advance intimation to Contractor by BYPL.
 - (e) Certification of penalty (defaults and sum penalized) shall be through BYPL Security, along with intimation to concerned User Department, C&M, F&A. A notice shall be sent to Contractor/ agency.

- (f) That in addition to the penalty as specified above, in case of any blacklisted manpower/personnel is found working/deputed by the Contractor, with BYPL for the performance of work under agreement, the same shall be termed as breach of terms of agreement and annexures thereto and shall, in addition to other penalties and rights available with Company/BYPL, levy a penalty of 1% of the contract value or Rs Fifty Thousand (50000), whichever is lower, and deduct/recover from the monthly bill of the Contractor.
- (g) In case of second or subsequent default as specified above, within 6 months from the first default, the same, without prejudice to other penalties/ remedies that can be imposed/resorted under the terms of this agreement, BYPL reserves the right to terminate the contract.
- (h) It is further agreed by the Contractor that the imposition of penalty and the quantum thereto shall be the sole discretion of BYPL and no claim/dispute by Contractor, challenging the imposition of penalty and/or the quantum thereto shall be maintainable.
- (i) BYPL may review/revise ID card Policy including penalty during the tenure of agreement. This shall be at the sole discretion of BYPL and Contractor shall be liable to comply in full the revised policy, notified time to time.
- (j) The Contractor shall submit resumes of its personnel to be deputed/Supervisors within 2 days of Award of Agreement/Work Order for approval and selection by BYPL. BYPL shall conduct interview and select the personnel to be deputed/Supervisors and provide inputs to Contractor for further action and deployment.
- (k) The Contractor shall collect the following documents from the personnel deputed under agreement, within two weeks of mobilization and shall deposit the same with BYPL, as follows:
- (i) Educational Qualification Certificate: Certificate and mark-sheet of all manpower demonstrating the highest educational qualification of all personnel, making them competent for the task assigned.
- (ii) Permanent Address Proof: Supporting document for permanent address proof of all personnel.
- (iii) Identity Proof: Copy of PAN card should be submitted as identity proof, for all personnel.

Contractor shall share the above information on demand from BYPL. BYPL reserves the right to reject deployed manpower, in case the same is not found suitable.

- (O) The Contractor shall conduct relevant background checks and prepare Background Reports through an authorized agency of all personnel deployed for the performance of task under agreement in BYPL within one month of deployment.

Such reports shall be shared with BYPL as requested. Contractor shall submit an Affidavit clearly stating that back-ground check for all personnel is complete and back-ground reports have been prepared to this effect within one month of deployment.

In case the Contractor does not provide his employees with PIC (Personnel Identity Card), the same shall be provided by the Company and the cost plus 30% overheads shall be recovered from the contractor's bills. This shall be in addition to the right of company to impose/recover penalty over contractor for such default.

- (P) Failure by the Contractor's personnel to wear PIC shall attract a penalty of Rs. 1,000/- per incident per day.

- (Q) In case, any of the manpower has been found not serving his part of duty on any day as per the instructions, Contractor will be fined at the rate of Rs 500/- per person per day.
- (R) A separate penalty as per score card shall be levied.
- (S) There will not be duplicity of penalty for the same default.

34. DEPLOYMENT OF RESOURCES

- 34.1. Number of resources to be deployed by the Contractor at all-time shall be specified by the bidder as per the format in Section-V, scope of work.
- 34.2. The contractor shall deploy adequate resources for the smooth execution of work assigned to them. The contractor shall provide complete details including name, address, and Aadhar Card number of resource deployed.
- 34.3. The contractor shall deploy qualified & experienced resources comprising engineers, supervisors, diploma holders, skilled, semi-skilled & unskilled staff in accordance with the requirements of electricity rules, safety laws and other applicable regulatory laws. The contractor shall also ensure to meet the requirements of performance standards as mentioned in this document. If at any stage, the Company/Engineer In-Charge finds the resources not suitable or not up to the mark, the Contractor shall deploy the alternate resources immediately.
- 34.4. Distribution of electricity is an essential service as well as a public utility service. It is imperative to secure the electric network of our license area so that uninterrupted distribution of power supply to essential services like Delhi Metro, Police, hospitals, etc. is maintained. Proper security measures are essential due to the extremely sensitive and critical nature of these services. Therefore, Contractors shall be responsible for maintaining Personal Identification Data of all staff deployed by him at our premises in electronic or any other form as prescribed by the company. In addition to this, the Contractor shall also submit a record of his deployment in various locations to BYPL on a daily basis if required by the Divisional In-charge.
- 34.5. The resource deployed by the contractor shall exercise highest level of integrity at work place and shall not involve in any type of malpractice. In case any resource of the contractor is found involved in any malpractice, the contractor shall indemnify the company for the loss incurred by the company on account of such malpractice/misconduct. Since this scope of work and the assistance contemplated under the present contract or in the nature of statutory assistance towards preventing the theft of electricity under the provisions of the electricity act 2003 the integrity levels of the Contractor and /or the agency which is awarded the contract is expected to be of the highest standards.
- 34.6. In case the contractor or the resource deployed by him unable to execute the work assigned to it as per satisfaction of the company or the workmen of the Contractor refuses to work, going on strike or for any other reason likely to lead to loss of productivity, the company shall have right of engaging any other agency or resorting to any other suitable means without giving any reason and to recover the cost incurred out of the amount payable or become due to the contractor.

35. REPLACEMENT OF RESOURCE(S)

- 35.1. Should the Company consider at its sole judgment that the persons deployed by the Contractor are not suitable for the job for whatsoever reason, the Company will have the option either (i) to seek prompt replacement deputing the other person at the cost of Contractor or (ii) to terminate this work order/agreement in part or as a whole.
- 35.2. If the Company finds any employee of the Contractor guilty of any misconduct, incompetence or negligence, the Contractor shall, if so intimated by the Company, withdraw such employee from the work of company and replace him with a qualified and competent manpower. Contractor shall keep the Company informed of all manpower replacements and all such data shall be submitted with the person nominated by Company along with personal & qualification details of such persons deputed as replacement.
- 35.3. If any employee of the Contractor found indulged in unfair practices or causing direct or indirect damage to Company's Image/Property/Revenue, immediate action shall be taken by the Contractor and the Contractor shall suitably compensate the company for all loss incurred by the Company. Contractor shall have retrenchment / removal policy in place to handle such matters.

36. CONTRACTOR'S OBLIGATIONS

A) General Obligations

- 36.1 The performance of Services as completed by the Contractor shall be wholly in accordance with the Contract and fit for the purposes for which they are intended to and as defined in the Contract. The Services shall include any Service which is necessary to satisfy the Company's requirements and as implied by the Contract.
- 36.2 The Contractor shall execute the Services within the time frame for completion as specified in the order/agreement and Scope of Work. Without prejudice to the provisions of the Contract, before commencing the Services, the Contractor shall satisfy itself regarding the BYPL's requirements. The Contractor shall give notice to BYPL, within forty-eight (48) hours of the receipt of BYPL's requirements, of any error, fault or other defect in the BYPL's requirements or such items of reference.
- 36.3 The Contractor takes full responsibility for the adequacy and stability of Services to be performed at the Site.
- 36.4 The Contractor shall at all times endeavour to adopt best practices as is prevalent in like industry and shall always be required to achieve the desired quality and confirm to the schedule of Service(s) at no additional cost to the company/BYPL.
- 36.5 The Contractor is deemed to have satisfied itself as to the correctness and sufficiency of the BYPL's requirements and other terms of the Contract relating to its risks, liabilities and obligations

set out in or implied by the Contract and all matters and things necessary for the proper performance of the Services.

- 36.6 The Contractor acknowledges the responsibility of the following during the performance of the Services:
- (a) The proper transportation of Manpower and materials upto the Site and back.
 - (b) Availability of skilled Manpower in time.
 - (c) Compliance with the HSE Conditions and adherence to Contractual terms;
 - (d) Protection of the environment and adjacent structures and taking steps for remedying any damage caused to the environment or adjacent structures during the performance of the Services by the Manpower;
- 36.7 The Contractor shall, whenever required by the BYPL, submit details of the arrangement and methods which the Contractor proposes to adopt for the performance of the Services. No alteration to these arrangements or methods shall be made without the approval of BYPL.
- 36.8 Train its Manpower in the manner as reflected in their training manual, requirements of BYPL and as per the best industry practice before the deployment at the Site. Contractor shall maintain training records. Contractor ensures to replace Manpower of same specification in order to relievier / absenteeism of Manpower. In the event of replacement of Manpower, comply with all the pre and post requisite details of deployment, including but not limited to, furnishing of all the required registrations, licenses and medical examinations at the cost of Contractor without reimbursement from Company/BYPL.
- 36.9 Contractor agrees to provide all preliminary information or data as may be required by the Company/BYPL within fifteen days of issuance of the signed LOI/Work order or as per mutually agreed timelines.
- 36.10 In case the Contractor comes across with any ambiguity and/ or discrepancy in the BYPL's requirements, it shall immediately Communicate such ambiguity and/ or discrepancy to BYPL, for seeking appropriate instructions to resolve such ambiguities and discrepancies.
- 36.11 Contractor to maintain sufficient cash flow as working capital to meet daily expenses for the Manpower.
- 36.12 Contractor to coordinate and maintain close liaison with local police and administrators. Contractor to visit Site periodically and as per specific request of Company/BYPL.
- 36.13 Notwithstanding anything contrary in the Contract, Contractor must make judicious and economical use of resources of the company/BYPL at the Site, including, but not limited to resources such as space, water and electricity. In the opinion BYPL discover the misuse of resources by the Manpower, after serving notice to the Contractor if Contractor fails to adhere to this Article, BYPL reserves right to recover a suitable amount as per BYPL discretion. BYPL decision in this regard shall be final & binding.
- 36.14 The Contractor shall not use the name of the company/BYPL in any manner for credit arrangement or otherwise and it is agreed that the company/BYPL shall not in any way be responsible for any

debts, liabilities or obligations of the Contractor or its Manpower.

- 36.15 In case, if the company/BYPL is of the opinion, after due consultation with the Contractor, that extra Manpower or material / equipment is/are required for reasons of improving the quality and nature of Services at the Site, the Contractor shall arrange for the same timely at the same price specified in the Contract.
- 36.16 Contractor to ensure that the Manpower deployed should have bank account which their payment must be directly credited to their bank account by the Contractor. The Contractor shall submit the copy of its instructions to the bank to transfer the salary / wages to the account of its Manpower deputed under the contract to the company/BYPL on or before 7th day of every month for the previous month's salary transfer of individual Manpower to their bank.
- 36.17 Contractor to maintain list of Manpower in shifts and attendance muster at the Site entrance for Manpower deployed under the Contract.
- 36.18 The Contractor shall provide such uniforms as approved by the company/BYPL.
- 36.19 Immediately on commencement of the Contract, Contractor shall provide complete bio data of each Manpower employed at Site and shall ensure that the information provided in respect of each Manpower is verified and correct.
- 36.20 Staff working hours will be governed by the Factories Act and Applicable Law as per State where Site is located and Manpower have been deployed.
- 36.21 Contractor must ensure that child labour are not to be deployed at the Site.
- 36.22 A detailed Site specific deployment chart shall be submitted by the Contractor to Company within 5 working days before commencement of Services.
- 36.23 Contractor must ensure to conduct at least bi-weekly surprise checking at Site where their Manpower is deployed and performing Services to ascertain performance as per Contract. Contractor shall provide adequate quick response team and surveillance team for this purpose
- 36.24 Contractor shall develop its own network and arrangements and shall be solely responsible to recruit its own personnel for providing Services.
- 36.25 If required and on specific instructions by the company/BYPL, Contractor shall periodically rotate the Manpower after every 12 months or period as requested by the company/BYPL. BYPL to Communicate the same to the Contractor atleast 20 working days before rotation of Manpower is intended.
- 36.26 Manpower so deployed at the Site shall carry out only those Services that are stipulated under the terms of the Contract and shall not do any other job for reward or otherwise, except than those stipulated.
- 36.27 In case of accident of whatsoever nature at the Site where the Manpower is injured or dies, it would be the sole responsibility of the Contractor without any risk and cost of the BYPL.

- 36.28 Contractor to submit documents related to Manpower along with Contractor's organisation chart, authorised signatories & etc., before commencement of Services under the Contract.
- 36.29 In case death, injury to any Manpower of the Contractor, Contractor is sole responsible under Workmen Compensation Act and any other Applicable Law. Contractor must not violate any statutory provisions / Applicable Law and shall keep BYPL indemnified, in full, from any claim associated with injury/death to its employee deployed under the agreement. Contractor to compliant with all Applicable Laws. Any breach in statue / Applicable Law , BYPL reserves right to recover reasonable compensation at the discretionary of BYPL.
- 36.30 Contractor to provide master plan for deployment of Manpower and related resourced to the Company/BYPL before commencement of the Services. Along with this Contractor shall provide documentations in details covering Manpower details as requested by BYPL.

B) Compliance with Applicable Laws by Contractor

- 36.31 The Contractor shall fully familiarize itself and conform in all aspects with all Applicable Laws. The Contractor shall be bound to give all notices, file all returns, etc., required by Applicable Laws, as aforesaid and to pay all fees and charges in respect thereof. Contractor must have experienced manpower with knowledge to handle all statutory compliance related matters
- 36.32 The Contractor shall not be absolved from any of its obligations under Applicable Laws or the Contract or claim any additional amount from the Company/BYPL or seek any extension of time due to its ignorance of any Applicable Law.
- 36.33 The Contractor shall indemnify the company/BYPL against all costs, expenses, penalties and liabilities incurred/ suffered by any of the Company due to non-compliance of any Applicable Law by the Contractor in relation to the performance of the Services.
- 36.34 Contractor is required to obtain requisite license issued by the licensing officer/competent authority in the Government office before commencement of Services.
- 36.35 Contractor shall ensure that it remains in compliance with Applicable Laws at all times and maintained registers and records with all particulars as may be specified in the Applicable Laws.
- 36.36 Payment of gratuity (if any) to Manpower will be sole responsibility of the Contractor.
- 36.37 Contractor to submit details of payments made to PF and ESIC authorities with a list of Manpower deployed at the Site with copy of deposit challans–List of Manpower with PF and ESIC numbers to maintained up to date by Contractor and if required to be shared with BYPL.

C) Contractor's Other Obligations

- 36.38 The Contractor shall also provide the necessary proof of remittances of EPF, Pension amount and ESIC for the previous month, along with their invoices for the current month to Company. Without such proof, the invoices will not be processed for payment.
- 36.39 The employees deployed by the Contractor shall be employees of the Contractor.

- 36.40 At no point in time shall any employee of the Contractor claim to be the employee of the Company.
- 36.41 The Contractor is committed to recruit and provide qualified, experienced, well-trained, physically & mentally fit personnel in accordance with the Company's standard, duly verified by the local police Station as regards their antecedents and backgrounds.
- 36.42 The Contractor shall ensure that, the Contractor's manpower deployed at the Company shall be in good health, shall have proper eyesight and shall not have any medical problems which may endanger his life and the life of the other Company employees appointed at the said location. The Contractor shall ensure that, the Contractor's personnel deployed at the Company shall be entirely responsible for the stock of the commodities stored at the said location. To ensure such safety, the Contractor shall, before deploying any employee in the premises, shall have him medically examined by a registered medical practitioner at its own cost and expenses and produce a medical certificate certifying that the said employee is medically fit. It is further agreed that without such medical certificate, Company shall not permit any such Contractor's personnel to work in its premises. It is further agreed that Company may, from time to time, call upon the Contractor to have all or any of its Contractor's personnel examined.
- 36.43 The Contractor shall uphold the strictest disciplinary standards for all their personnel and any transgressions are dealt with immediately, and to the fullest extent that the law allows.
- 36.44 The Contractor shall provide uniforms to its manpower and shall provide an authority letter to the its manpower and they shall carry the same when they are on duty at the Company.
- 36.45 Whenever any Contractor's personnel goes on leave, the Contractor will arrange for a suitable replacement immediately.
- 36.46 The Contractor shall deploy electronic attendance marking system for their Resources and maintain records for the same. The same has to be produced if demanded by the Company.
- 36.47 The Contractor shall fully guide, supervise and monitor the Contractor's manpower deployed in Company locations by its Supervisors.
- 36.48 Supervisors will inspect every location at least once every 15 days during day/night to check the level of control exercised by Contractor's personnel. The Supervisors will take digital photographs of Contractor's personnel in the location during their inspection. The photographs will contain date and time stamp to identify the date the photographs are taken and send the photographs to Company along with their inspection report on weekly basis.
- 36.49 The Contractor undertakes to provide required resources to maintain desired service level. In case of any failure in services due to paucity of resources, BYPL shall be within its rights to make necessary deductions in addition to such rights as available under contract.
- 36.50 **TIMELY DISBURSEMENT OF WAGES**
- The Contractor shall ensure that monthly wages/salary disbursed to its manpower timely but not later than 7th of each month. Though the company endeavours to process Contractor's bills on time as per the payment timelines mentioned in agreement (payment terms), under no circumstances delay in disbursement of wages shall be acceptable, it is the Contractor's

responsibility to ensure the same, accordingly the bidders are expected to quote their rates to fulfil their obligations towards the timely disbursal of wages and all other benefits including PF/ESI/Bonus/leave pay/allowances etc.

It may please be noted that BYPL reserves the right to terminate the agreement in case of second or subsequent repeated instances of delay in disbursal of the wages.

37. THE COMPANY/BYPL'S OBLIGATIONS/RESPONSIBILITIES

- 37.1 BYPL may check the competencies of the manpower for the work for which they are deputed to ensure that requisite skill and competency levels are being met with by the Contractor .
- 37.2 BYPL shall not exercise direct control (including matters of payments, discipline and removal/termination) and supervision over the Contract Manpower and that shall be done by the Contractor. However, BYPL shall have a right to assess the abilities and skills of the Manpower deployed by the Contractor to ensure the quality of Service provided under the Contract, without actually managing or directing such Contract Manpower.
- 37.3 The contractor shall ensure to maintain the registers like muster roll, wage register, etc., and shall share the copy of the same with BYPL as and when demanded,
- 37.4 The Company/BYPL reserves the right to engage other party(ies) to perform similar or identical Services to be performed by Contractor under this Contract / Agreement for which Contractor shall not have any objections.
- 37.5 BYPL reserves right to review the resources requirement for the performance of assigned task, on periodically or preferably on monthly basis for their respective performance. The Contractor, without any objection, shall deploy resources on time accordingly. The Contractor to deploy resources within 2 days (including Central and State holidays) to Site / establishment as notified by BYPL in writing. Failure to do so shall result into delay in deploying resources for the completion of the assigned task, the reasonable compensation shall be applicable in terms of the Contract.
- 37.6 BYPL shall at all times have access to any Site where the Manpower is engaged and performing any of the Services and BYPL shall have the right to inspect performance at Site. Any deviation or gap or discrepancies arises while executing Services shall be communicated to Contractor within 3 working days. The Contractor within next two working days shall provide reasonable feedback with evidence if any to BYPL. If Contractor does not respond to the Communication in time under this sub Article, it tantamount to breach of the Contract and shall attract reasonable compensation in terms of the Contract.

38. INDEMNITY

The Contractor shall indemnify, defend, save and hold harmless all directors, company and its employees against any and all suits, proceedings, actions, demands and third party claims for any loss, damage, cost and expense suffered by company on account of the negligence, act or omission inaction by the Contractor or its employees under this Agreement. Agencies shall also wholly indemnify and compensate company against any theft, misappropriation, fraudulent act or

omission, any collusion with customer/s, intentional recording of incorrect reading/DATA, or any other offence under the applicable laws or breach of obligation under the present agreement, and would also render itself liable to appropriate legal action being initiated against it by company.

The Contractor shall also be responsible and liable to company for any loss or damage caused to company for any negligence or inaction, damage to the property of company caused by the Contractor or its employees.

39. SECRECY & CONFIDENTIALITY

- 39.1 The technical information, data and other related documents forming part of order and the information obtained during the course of investigation under this order shall be the Company's exclusive property and shall not be used for any other purpose except for the execution of the order. The technical information drawing, records and other document shall not be copied, transferred, or divulged and/or disclosed to third party in full/part, not misused in any form whatsoever except to the extent for the execution of this order.
- 39.2 These technical information, drawing and other related documents shall be returned to the Company with all approved copies and duplicates including data/drawing/plans as are prepared by the Contractor during the executions of this order, if any, immediately after they have been used for agreed purpose.
- 39.3 In the event of any breach of this provision, the Contractor shall indemnify the Company against any loss, cost or damage or claim by any party in respect of such breach.
- 39.4 The Contractor shall not use the name/logo/emblem of the Company in any manner either for credit arrangement or otherwise and it is agreed that the Company shall not in any way be responsible for the debts, liabilities or obligations of the Contractor and/or his employees.
- 39.5 The Contractor hereby covenant that the Contractor shall be responsible for theft, if any committed, by his staff and the Contractor shall indemnify Company from and against all claims, demands, actions, suits and proceedings, whatsoever that may be brought or made against the Company by or on behalf of any person, body, authority whatsoever and whomsoever and all duties, penalties, levies, taxes, losses, damages, costs, charges and expenses and all other liabilities of whatsoever nature which the Company may be liable to pay, incur or sustain by virtue of or as a result of the performance or non- performance or observance or non- observance by the Contractor of any of the terms and conditions of this agreement. The Company shall have full power and rights at its discretion to pay or defend or compromise any suits, claims or demands brought or made, whether pending or threatened touching upon this agreement as it may consider necessary or desirable and shall be entitled to recover from the Contractor all sums of money including all legal costs, charges and expenses incurred by virtue of any such compromises which shall not be called into question by the Contractor but shall be final and binding on the Contractor.
- 39.6 Contractor shall submit signed NDA as per the format 4.3 attached.

40. NON-EXCLUSIVITY

The award of the work order/agreement to the Contractor shall not preclude the Company from awarding the same order for similar work at the same rates, or on any terms and conditions to other party or parties. The Company at its discretion may place the order on any other party.

41. SEVERABILITY

If any provision of this Agreement is or becomes invalid or unenforceable by the courts of any jurisdiction to which it is subject, such invalidity or unenforceability shall not prejudice the remaining provisions of this Agreement, which shall continue in full force and effect.

42. ASSIGNMENT & SUBLETTING

The Contractor shall not, without company's prior consent in writing assign or sublet or transfer any portion of services awarded to the Contractor as envisaged herein and falling under this contract. Moreover, any such consent shall not relieve the Contractor from any obligation, responsibility, or duty under this Contract.

43. ASSIGNMENT BY THE COMPANY

The rights and obligations of BYPL under the Contract shall be assignable to Affiliates, associate company, joint venture or any other company including change in Management Control and BYPL's lenders without consent of the Contractor. Upon written notice of seven Business Days (07 days) by BYPL, the Contract shall be deemed to have been assigned to the third party under this Article. This Article fulfils its meaning notwithstanding the notice is not accepted by the Contractor and BYPL shall not be obliged to the Contractor after seven days (07) of issue of any further notice.

44. TREE PRUNING, EXCAVATION NEAR TREES, CONSTRUCTION & DEMOLITION:

All electric wires and high tension cables or other damaging elements shall not be installed on trees in a manner contrary to the directions passed by the honourable High Court of Delhi and must be removed from the trees.

Notwithstanding anything stated in the tender document, work contract or any other communication issued related to the performance of the work order awarded, the vendor and its associate/employees/worker, during the performance of work under this work order shall ensure full compliance of the provisions of all environment laws/rules/directions by any authority including judicial authority/ regulation related to excavation near tree and construction & demolition activity, and shall mandatorily comply the measures related to the Tree Pruning, excavation near trees, construction & demolition as detailed in Annexure-II of this order.

45. NO JOINT VENTURE

The Contractor shall not constitute a joint venture, consortium or other unincorporated grouping of two or more Persons, following the execution of the Contract, without the prior written approval of the Company.

46. WAIVER OF RIGHTS

No delay or forbearance by company in exercising any right or power under this Agreement shall be construed as a waiver of such right or power, nor shall any single or partial exercise of such right or power preclude any further exercise of such right of power.

47. THE COMPANY'S RIGHT TO VARY QUANTITIES

The Company reserves the right to vary the quantity i.e. increase or decrease the Numbers/ quantities without any change in terms and conditions during the execution of the Order. BYPL may increase or reduce the area/ scale of operations after starting of execution of the contract and the size of contract may be adjusted accordingly.

48. CONTRACTOR'S EQUIPMENT

- 48.1. All Contractor's Equipment and Temporary Works provided by the Contractor or any permitted Subcontractor, shall, when brought on to the Site, be deemed to be exclusively intended for execution of the Works and not be removed without the consent, in writing, of the Company's Representative.
- 48.2. Upon completion of the Works, the Contractor/permitted Subcontractor shall remove from the Site, all its Equipment and Temporary Works and its unused materials.
- 48.3. The Company shall not at any time be liable for the loss or damage to any of the constructional plant, Temporary Works or materials.
- 48.4. The Contractor shall, upon written request by the Company's Representative, produce to the Company's Representative, all documents evidencing title to or the contractual arrangement giving the right to the Contractor to use the Contractor's Equipment. In the event of failure to comply with such request within seven (7) days, then without prejudice to any other rights, the Company shall be entitled to withhold the payments due to the Contractor under the Contract.

49. AVAILABILITY OF TOOL & PLANT (T&P)

The contractor shall provide T&P to their staff as mentioned in Scope of work. The contractor shall provide all tools in the beginning of contract and shall ensure the proper availability of tools and tackles as per that list throughout the contractual period. These tools shall be of make as specified in the Scope of work. It shall be responsibility of contractors to replenish and maintain the existing T&P on regular basis.

- I. All the T&P shall be tagged / marked as "BYPL-AMC-Div Name-Serial No." , For eg. LNR Divn T&P shall be tagged / marked as "BYPL-AMC-LNR-001" The tagging/ marking shall be done wherever possible
- II. A certificate from Engineer-In Charge to this effect under point no. I above and that T&P has been provided to all working staff.

50. FREE ISSUE MATERIAL

- 50.1. The Company, may provide free issue materials to Contractor in those cases only where it is specifically mentioned in the Contract. Transportation of free issue materials from site / store or place of availability at site to the work area shall be in scope of the contractor.

- 50.2. Contractor shall submit Reconciliation Statement of these free issue materials along with monthly bill. Reconciliation Statement will show issued quantity of free issue materials/ quantity consumed in work and quantity balance in contractor's stock.
- 50.3. The Contractor shall have to furnish an Indemnity Bond for materials which are free issued by the Purchaser. Further the contractor shall be responsible for the safe custody of materials till the materials are utilized, fabricated, erected and accounted for in all respects.

51. VENDOR CODE OF CONDUCT

Contractor confirms to have gone through the Policy of BYPL on legal and ethical code required to be followed by Vendors encapsulated in the "Vendor Code of Conduct" displayed on the official website of BYPL (www.bsesdelhi.com) also, which shall be treated as a part of the agreement.

Contractor undertakes that he shall adhere to the Vendor code of Conduct and also agrees that any violation of the Vendor Code of Conduct shall be treated as breach of the agreement.

In event of any such breach, irrespective of whether it causes any loss/damage, company (BYPL) shall have the right to recover loss/damage including liquidated damages from Contractor.

The Contractor hereby indemnifies and agrees to keep indemnified the company (BYPL) against any claim/litigation/liability/penalty including litigation cost arising out of any violation of Vendor Code of Conduct by the Contractor or its officers, agents & representatives etc.

52. DISCLOSURE OF RELATIONSHIP

The Contractor acknowledges & undertakes that the Contractor or any partner of the Contractor or director of the Contractor is not related to any of the officers of the Company or the Company's Representative, or alternatively, is a close relative of an officer of the Company or the Company's Representative and has no financial interest/stake in the Company's business. The Parties agree that breach of the above provisions shall entitle the Company to terminate the Contract under Clause 23, without payment of any compensation to the Contractor. The Contractor agrees and acknowledges and shall ensure that its employees, directors and partners do not develop any such interest during the Contract Period.

53. MSME

- 53.1. If the Contractor is covered under the definition of supplier/Contractor under the purview of Micro, Small & Medium Enterprises Development Act, 2006, it shall declare so at the time of its registration as vendor with the Company failing which it will be presumed that it is a non-MSME unit.
- 53.2. Contractor shall provide to Company the proof of classification of its enterprise and filing memorandum with the authorities concerned under the Micro, Small & Medium Enterprises Development Act, 2006 (herein referred to as "the MSMED Act") within one week of receipt of the Contract

53.3. The Contractor further declares and undertakes to intimate Company of any change in its status or constitution under this section from time to time under this Contract. The Contractor must provide MSME registration number along with PAN card and GST registration number on Tax Invoice failing which the Contractor shall not claim any benefit under the MSMED Act.

53.4. The Contractor to furnish the undertaking to the Company in this regard.

54. COVID GUIDELINES

Looking to the prevailing Covid19 situation, Contractor will ensure that the work carried out in the field by their staff shall be as per the guidelines issued by MHA / BYPL/ Engineer-in-charge from time to time. Further Contractor shall be required to provide to their staff masks/ sanitizers/ all PPEs required for working in Covid19 situation. The Contractor shall further ensure to work as per the guidelines issued by BYPL and the instruction of the Engineer in charge.

55. CLEANLINESS & PRECAUTIONS TO BE TAKEN WHILE DOING WORK AT SITE TO PREVENT DUST POLLUTION

All debris shall be removed and disposed off at assigned areas on daily basis. Surplus excavated earth shall be disposed of in an approved manner. In short, the contractor shall be fully responsible for keeping the work site clean at all times. In case of non- compliance, company shall get the same done at Contractor's risk and costs.

While carrying out any civil work including road/ pit digging, plinth/ fence making, road restoration etc contractor shall adhere to below mentioned guidelines.

- (a) No construction material/ debris shall be stored on metalled road.
- (b) Wind breakers of appropriate height on all sides of ear marked area using CGI sheets shall be raised to ensure that no construction material dust fly outside ear marked area.
- (c) The construction material i.e. coarse sand, stone aggregates, excavated earth, cement and any other material to and from the site shall be transported under wet and covered condition to ensure their non-slippage en-route to avoid air contamination.
- (d) The contractor shall provide mask and helmet to every worker working on the construction site and involved in loading/unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
- (e) Over loading of vehicles shall be strictly prohibited
- (f) The construction material at site shall be stored under wet and covered condition.
- (g) The dumping sites for temporarily storing the excavated earth shall be properly levelled, watered and rehabilitated by plantation to avoid flying of dust.
- (h) The worker at the site shall be sensitized to adopt / observe the dust controlled measures in true spirit.
- (i) If any C&D waste is generated at site the same will be transported to the C&D waste site only and the record for the same will be maintained by the agency.
- (j) Wet jet in grinding and stone cutting is being permitted at site.
- (k) The necessary record for dust control is being maintained by the department on day to day basis and being monitored regularly.
- (l) Contractor shall ensure that no tree shall be harmed and no tree roots shall be destroyed/cut while

- performing the task under agreement.
- (m) The contractor shall comply the provisions of The Delhi Preservation of Trees Act 1994.

The Execution contractor shall be responsible for all the preventive and protective environmental steps as per guidelines. Any violations from the above guidelines have been viewed very seriously by the authorities. Contractor shall be liable for the penalties / other action by the authorities, the contractor shall indemnify BYPL from all liabilities on this account.

56. ENVIRONMENTAL, HEALTH & SAFETY

The Contractor will ensure that the Environment, Health & Safety (EHS) requirements are clearly understood and faithfully implemented at all levels at site as per instruction of Company/BYPL. Contractors must comply with the requirements, as follows:

- (i) Comply with all of the elements of the EHS Plan and any regulations applicable to the work
- (ii) Comply with the procedures provided in the interests of Environment, Health and Safety
- (iii) Ensure that all of their employees designated to work are properly trained and competent
- (iii) Ensure that all plant and equipment they bring on to site has been inspected and serviced in accordance with legal requirement and manufacturer's or supplier/Contractor s' instructions
- (iv) Make arrangements to ensure that all employees designated to work on or visit the site present themselves for site induction prior to commencement of work
- (v) Provide details of any hazardous substances to be brought onsite
- (vi) Ensure that a responsible person accompanies any of their visitors to site

All personnel deputed by Contractor under agreement shall be accountable for the following:

- (a) Use the correct tools and equipment for the job and use safety equipment and protective clothing supplied, e.g. helmets, goggles, ear protection, etc. as instructed
- (b) Keep tools in good condition
- (c) Report to the Supervisor any unsafe or unhealthy condition or any defects in plant or equipment
- (d) Develop a concern for safety for themselves and for others
- (e) Prohibit horseplay
- (f) Not to operate any item of plant unless they have been specifically trained and are authorized to do so.

57. ACCEPTANCE

Acceptance of the CONTRACT implies and includes acceptance of all terms and conditions enumerated in the CONTRACT, in the technical specification and drawings made available to the Contractor consisting of general conditions and complete scope of work.

Contractor's and Company's contractual obligations are strictly limited to the terms set out in the CONTRACT.

SECTION – V : SCOPE OF WORK

The scope of work to be carried out by the contractor shall be execution of 1.1/11 KV & EHV works pertaining to various schemes of BYPL. The work shall be carried out as per detailed annexure prepared by Engineer in Charge as per actual site condition and requirement for each scheme.

The contractor has to obtain Electrical Inspectorate's clearance of the installation for schemes. (Applicable for HT works only)

All the labour, cranes, power, tool and tackles and technical supervision etc. are including in your scope of work. Adequate number of engineers, supervisors and labours shall be posted at site and the list of the same along with certificate of Qualification of technical staff should be submitted by the Contractor to the Company for checking the adequacy immediately (with in seven days) after award of contract.

However, Engineer In-Charge shall arrange any permission like Road cutting clearance etc. from the Delhi Civic authorities like MCD, DDA, PWD, DJB and Traffic Police. However, the contractor shall make follow up with local authorities and other connected persons that may be required to carry out the job under this order.

All loading/ unloading of materials at work-site shall be your responsibility. Involvement of Crane/Hydra/Tractor/Trailer for this type of work shall be in your scope. Adequate weather protection shall be provided by the contractor to keep the materials safe from sun & rain by providing covered storage space as well as using tarpaulins.

While carrying out trenchless / open digging works the existing underground cables are liable to get damaged leading to High Risk Safety Hazard to the working people.

To arrest above problem to the best degree possible, there are technology support available, like Cable Route Tracer which is an important tool to detect the live / dead cables underground to the depth upto 3 meters, comfortably. The vendor must employ Cable Route Tracer before start of excavation / trenchless job and submit reports to the Engineer-in-charge for clearance to start the job. The above will minimize the risk of cable damage and improve safety of the working people.

It may please be noted that in case contractor have no "Cable Route Tracers" with him, as a basic necessity tool. Heavy penalty will be imposed on the vendors, if the vendor damages the cables. The preferable make for the Cable route tracer shall be 3M or equivalent make.

SECTION – VI: PRICE BID

PART- A:1.1/11KV SERVICE ITEMS

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
1	3002861	ERECTION OF 36' PCC POLES (11 MTR) ,I/C REFILLING,RAMMING OF THE FOUNDATION AND INCLUDING REMOVAL OF MALBA & TRANSPORTATION OF POLE FROM STACKING SITE WITHIN 1 KM.DISTANCE EXCLUDING DIGGING,CONCRETING,& BRICK PADDING.	EA	441		
2	3002862	ERECTION OF 110 LBS, 42' RAILS INCLUDING DIGGING , REFILLING,RAMMING OF THE FOUNDATION AND INCLUDING REMOVAL OF MALBA ,GROUTING WITH CEMENT CONCRETE MORTAR TO 16 CFT. OF 1:3:6 RATIOS (1 CEMENT, 3 BADARPUR, 6 STONE BLAST-CEMENT,SAND AND MORTAR TO BE SUPPLIED BY THE CONTRACTOR).INCLUDING TRANSPORTATION OF POLE FROM STACKING SITE WITHIN 1KMS.PAINTING OF RAIL WITH ONE COAT OF PRIMER & TWO COAT OF AL (PAINT TO BE SUPPLIED BY THE CONTRACTOR).INCLUDING BRICK PADDING.	EA	1		
3	3002864	ERECTION OF 9.0 M PCC POLE/STEEL TUBELAR I/C REFILLING, RAMMING OF POLE FOUNDATION AND INCLUDING REMOVAL OF MALBA & TRANSPORTATION OF POLE FROM THE STACKING SITE WITHIN 1KM.DISTANCE EXCLUDING DIGGING,CONCRETING,& BRICK PADDING.	EA	602		
4	3006419	ERECTION OF GI PIPES(SIZE 50 TO 100MM DIA) OF 6MTR OR 6.6MTR. LENGTH. THE WORK SHALL INCLUDE EXCAVATION/BACKFILLING OF SOIL AND INCLUDING REMOVAL OF MALBA AND FIXING OF PIPE BY GROUTING(BRICK PADDING AND CONCREATING SHALL BE PAID SEPERATLEY)	EA	1		
5	3006421	ERECTION OF ANGLE/CHANNEL OF 3.6 METER LENGTH. THE WORK SHALL INCLUDE EXCAVATION/BACKFILLING OF SOIL AND INCLUDING REMOVAL OF MALBA AND FIXING BY GROUTING ANGLE/CHANNEL AND ALSO 2 COATS OF AL.PAINTS I/C SUPPLY OF OUTDOOR TYPE ISI MARK PAINT.(CONCREATING SHALL BE PAID SEPERATLEY)	EA	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
6	3007261	EXCAVATION FOR ERECTION OF ANY KIND OF POLE OR STRUT OR STAY IN ORDINARY SOIL.	CUM	6		
7	3007262	EXCAVATION FOR ERECTION OF ANY KIND OF POLE OR STRUT OR STAY IN BRICK-WORK.	CUM	63		
8	3007263	EXCAVATION FOR ERECTION OF ANY KIND OF POLE OR STRUT OR STAY IN FOOTPATH OF TILES/RAJASTHANI OR KOTA OR AGRA-STONE/TILES.	CUM	1		
9	3007264	EXCAVATION FOR ERECTION OF ANY KIND OF POLE OR STRUT OR STAY IN ORDINARY BITUMENOUS ROAD.	CUM	128.08		
10	3007265	EXCAVATION FOR ERECTION OF ANY KIND OF POLE OR STRUT OR STAY IN DENSE CARPETED OR C.C.OR ASPHALTIC PORTION.	CUM	3779.15		
11	3007266	EXCAVATION FOR ERECTION OF ANY KIND OF POLE OR STRUT OR STAY IN ROCKY-AREA PORTION.	CUM	74		
12	3006420	INSTALLATION OF ANY HARDWARE FITTING ON GI PIPE FOR SUPPORTING SERVICE LINE/LT MAIN (EXCLUDING FABRICATION WORKS BUT INCLUDING JUMPERING ETC.).RATE IS FOR PER GI PIPE.	EA	26		
13	3002865	INSTALLATION OF ANY HARDWARE FITTING I.E. PIN INSULATORS, EARTH BRACKET, CROSS ARMS, DISC. INSULATORS, CLAMPS ETC.BUT EXCLUDING FABRICATION WORK ON HV LINE.RATE IS FOR PER POLE ON SINGLE POLE/RAIL STRUCTURE/DOUBLE POLE / RAIL STRUCTURE/ON X-BRACING STRUCTURE/ON 3 POLE STRUCTUREON /4 POLE/RAIL STRUCTURE ON X-BRACING OF 3/4 POLE/RAIL STRUCTURE.	EA	291		
14	3002871	INSTALLATION OF ANY HARDWARE FITTING I.E. D` CLAMP,TWO LINE CROSS ARM, SHACKLE STRIPS ETC, FOR LV LINE (EXCLUDING FABRICATION WORKS BUT INCLUDING JUMPERING ETC.).RATE IS FOR PER POLE ON SINGLE PHASE LINE./ON TWO PHASE LINE/ON THREE PHASE LINE WITH STREET LIGHTING.NOTE:SHACKLE INSULATORS ARE INCLUDED WITH H/W-FITTING.	EA	1806		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
15	3002874	INSTALLATION OF ANY HARDWARE FITTING I.E. D` CLAMP, TWO LINE CROSS ARM, SHACKLE STRIPS ETC, FOR LV LINE (EXCLUDING FABRICATION WORKS BUT INCLUDING JUMPERING ETC.).RATE IS FOR PER POLE ON ERECTION OF EXTENSION BRACKET FOR SINGLE PHASE LINES WITH STREET LIGHTING.NOTE:SHACKLE INSULATORS ARE INCLUDED WITH H/W-FITTING.	EA	77		
16	3002875	INSTALLATION OF ANY HARDWARE FITTING I.E. D` CLAMP,TWO LINE CROSS ARM, SHACKLE STRIPS ETC, FOR LV LINE (EXCLUDING FABRICATION WORKS BUT INCLUDING JUMPERING ETC.).RATE IS FOR PER POLE ON ERECTION OF EXTENSION BRACKET THREE PHASE LINE WITH STREET LIGHTING.NOTE:SHACKLE INSULATORS ARE INCLUDED WITH H/W-FITTING.	EA	317		
17	3002883	SAGGING & STRINGING OF G.I. EARTH WIRE INCLUDING JUMPERING & MAKING OF CONNECTION HOOKS ETC. PER CONDUCTOR /PER MTR.ROUTE LENGTH. GI WIRE 4/6/8 SWG.	M	5127		
18	3007300	RE-SAGGING OF G.I. EARTH WIRE INCLUDING JUMPERING & MAKING OF CONNECTION HOOKS ETC. PER CONDUCTOR /PER MTR.ROUTE LENGTH. GI WIRE 4/6/8 SWG.	M	1		
19	3002885	FIXING OF PUCCA STAYS IN PLINTH OF 8 CFT. CONCRETE MORTAR OF RATIOS 1:3:6 (1 CEMENT,3 BADARPUR 6 STONE BALLAST), FIXING OF BASE PLATE, TENSION SCREWS ETC. WITH OUT FABRICATION WORK. NOTE: BADARPUR,CEMENT & STONE BALLAST TO BE PROVIDED BY THE CONRACTOR.- EXCL.STAY MATERIAL & EXCAVATION FOR HV POLE.	EA	1		
20	3002886	FIXING OF PUCCA STAYS IN PLINTH OF 8 CFT. CONCRETE MORTAR OF RATIOS 1:3:6 (1 CEMENT,3 BADARPUR 6 STONE BALLAST), FIXING OF BASE PLATE, TENSION SCREWS ETC. WITH OUT FABRICATION WORK. NOTE: BADARPUR,CEMENT & STONE BALLAST TO BE PROVIDED BY THE CONRACTOR.- EXCL.STAY MATERIAL & EXCAVATION FOR LV POLE.	EA	19		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
21	3002887	FIXING OF FLYING STAY INCLUDING ERECTION OF POLE / RAIL IN THE PLINTH OF 8 CFT. CONCRETE MORTAR OF RATIO 1:3:6 (1 CEMENT 3 BADARPUR, 6 STONE BALLAST) WITH BASE PLATE, TENSION SCREW ETC. EXCLUDING FABRICATION WORKS. (NOTE: BADARPUR,CEMENT & STONE BALLAST TO BE PROVIDED BY THE CONTRACTOR) EXCL. STAY MATERIAL & EXCAVATION BUT I/C TRANSP.OF POLE/RAIL WITHIN 1KM.OF STACKING SITE/SITE TO SITE. FOR HV POLE	EA	2		
22	3002888	FIXING OF FLYING STAY INCLUDING ERECTION OF POLE / RAIL IN THE PLINTH OF 8 CFT. CONCRETE MORTAR OF RATIO 1:3:6 (1 CEMENT 3 BADARPUR, 6 STONE BALLAST) WITH BASE PLATE, TENSION SCREW ETC. EXCLUDING FABRICATION WORKS. (NOTE: BADARPUR,CEMENT & STONE BALLAST TO BE PROVIDED BY THE CONTRACTOR-EXCL. STAY MATERIAL & EXCAVATION BUT I/C TRANSP.OF POLE/RAIL WITHIN 1 KM.OF STACKING SITE/SITE TO SITE. FOR LV POLE WITH EGG INSULATOR.	EA	1		
23	3002889	FIXING OF STRUT STAY WITH CLAMPS I/C TRANSP.OF POLE FROM STACKING SITE WITHIN ONE KM.EXCLUDING DIGGING,CONCRETING,& BRICK PADDING.FOR HV POLE.	EA	20		
24	3002890	FIXING OF STRUT STAY WITH CLAMPS I/C TRANSP.OF POLE FROM STACKING SITE WITHIN ONE KM.EXCLUDING DIGGING,CONCRETING,& BRICK PADDING. FOR LV POLE.	EA	1		
25	3002891	Making & fixing of guard lacs of G.I.Wire no.4/6/8 SWG. For HV pole.	EA	1		
26	3002892	Making & fixing of guard lacs of G.I.Wire no.4/6/8 SWG. For LV pole.	EA	1		
27	3003638	Supply and fixing of Bamboo/PVC spacer for LT line	EA	1		
28	3002900	Passing GI stay wire 7/8 or 7/9 or 7/10 SWG, through suitable size of G.I.Pipe fixing the pipe & stay wire on the pole with clamps & terminating the earth wire at cross arm & connecting the same with all the metal portions with proper binding wire (excluding fab, GI pipe and Stay wire supply).	EA	16		
29	3002901	Providing and Fixing of anti-climbing devices with six round of barbed wire.	EA	840		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
30	3002902	Providing and Fixing of Danger plate with clamps.	EA	497		
31	3002904	Fabrication work using MS steel (for any type & as per drawing, specification provided by BSES) including all consumables i.e. welding rods, supplying and providing 2 coats of red oxide primer and one coat of aluminum paint, nuts, bolts and washers. All type frames,structure,clamps etc.Steel shall be provided by Contactor.	KG	54118.5		
32	3005580	Fabrication work using MS steel (for any type as per drawing, specification provided by BSES) including all consumables i.e. welding rods, supplying and providing 2 coats of red oxide primer and one coat of aluminum paint, nuts, bolts and washers. All type frames,structure,clamps etc.Steel shall be provided by BSES	KG	131788		
33	3009059	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc.mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an 11 KV G.O. Switch (single phase)	EA	303		
34	3003216	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc. mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an 11KV DD Fuse units (A set of three nos)	EA	2		
35	3009070	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc. mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an 11KV DD Fuse units (single phase)	EA	6705		
36	3002945	Sliding or Shifting or Straightening of tilted PCC Poles upto 36' i/c.digging the pit.	EA	1		
37	3002946	Making & Fixing jumpers on shackle points. (on LT) including crimping of cable sockets at its ends and connection with connection hook. From 50 sq. mm to 150 sq. mm cable S/Core	EA	6865		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
38	3002947	Making & Fixing jumpers on shackle points. (on LT) including crimping of cable sockets at its ends and connection with connection hook. Above 150 sq. mm.	EA	1		
39	3007301	Making of shackle points on HT 11 KV O/H line of all sizes of conductors complete in all respect.Rates are for Three Phases	EA	1		
40	3007302	Making of Dead end points on HT 11 KV O/H line of all sizes of conductors complete in all respect.Rates are for Three Phases	EA	1		
41	3007303	Making of shackle points on LT O/H line of all sizes of conductors complete in all respect.Rates are per Phase	EA	32		
42	3007304	Making of Dead end points on LT O/H line of all sizes of conductors complete in all respect.Rates are per Phase	EA	39		
43	3002948	Trimming of any no. of branches of any size of any type of tree as to keep them away at least 2.00 mtr at the time of trimming in such a way that they do not fall on the GI/ACC shed, live transformer, electric/telephone wire by any means Use, axe, saw, ropes etc. as per site conditions. The trimmed material to be disposed to the municipal bin by any means. Nothing shall be allowed to burnt or flamed.	EA	115		
44	3006364	Drawing of single core PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Upto 10 sq mm Rates per mtr of s/c	M	10		
45	3007305	Drawing of single core PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Above 10 to 25 sq mm Rates per mtr of s/c	M	350		
46	3002949	Drawing of single core PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Above 25 Sq. mm to 50 sq mm.Rates per mtr of s/c	M	3686		
47	3002950	Drawing of single core PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. above 50 sq. mm up to 150 sq. mm.Rates per mtr of s/c	M	11366.5		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
48	3003637	Drawing of single core PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Above 150 sq. mm.Rates per mtr of s/c	M	1		
49	3006365	Drawing of Multicore PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Upto 10 sq mm	M	3385		
50	3006366	Drawing of Multicore PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. above 10 sq.mm. to 25 sq mm	M	3436		
51	3004908	Drawing of Multicore PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. above 25 sq. mm to 50 sq mmm	M	6992		
52	3004909	Drawing of Multicore PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Above 50 sq. mm up to 150 sq. mm	M	3043		
53	3004910	Drawing of Multicore PVC/XLPE cable on poles supported with catenary wire including fixing of cleat/clamps etc. as required for supporting of cable/wire. Above 150 sq. mm	M	5062		
54	3004906	Earthing with 40mmX3mt long GI pipe of B class with Masonary earth pit enclosure on top covered having locking watering arrangement with funnel I/C provision of salt charcoal as per IS 3043. (Resistance should be less than 1 ohm) Salt,charcoal, masonary material and top enclosure cover shall be provided by contractor and all earthing material shall be provided by BSES.	EA	128		
55	3009071	Earthing with 40mmX3mt long GI pipe of B class with Masonary earth pit enclosure on top covered having locking watering arrangement with funnel I/C provision of salt charcoal as per IS 3043. (Resistance should be less than 1 ohm) Salt,charcoal, masonary material and top enclosure cover and all the earthing material shall be provided by contractor	EA	107		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
56	3004907	Earthing with 40mmX2.5mt. ,GI pipe of B class with Masonary earth pit enclosure on top covered having locking watering arrangement with funnel I/C provision of salt charcoal as per IS 3043. (Resistance should be less than 1 ohm) Salt,charcoal, masonary material and top enclosure cover shall be provided by contractor and all earthing material shall be provided by BSES.	EA	6278		
57	3009072	Earthing with 40mmX2.5mt. ,GI pipe of B class with Masonary earth pit enclosure on top covered having locking watering arrangement with funnel I/C provision of salt charcoal as per IS 3043. (Resistance should be less than 1 ohm) Salt,charcoal, masonary material and top enclosure cover and all the earthing material shall be provided by contractor.	EA	1279		
58	3009073	Earthing with 100 mmX6 mt. ,GI pipe of B class with Masonary earth pit enclosure on top covered having locking watering arrangement with funnel I/C provision of salt charcoal as per IS 3043. (Resistance should be less than 1 ohm) Salt,charcoal, masonary material and top enclosure coverv shall be provided by contractor and all earthing material shall be provided by BSES.	EA	5		
59	3009074	Earthing with 100 mmX6 mt. ,GI pipe of B class with Masonary earth pit enclosure on top covered having locking watering arrangement with funnel I/C provision of salt charcoal as per IS 3043. (Resistance should be less than 1 ohm) Salt,charcoal, masonary material and top enclosure coverv and all the earthing material shall be provided by contractor.	EA	132		
60	3007287	Providing Plate Earthing including supply of 600mm x 600mm x6mm GI Plate, masonary encloser with hinged CI cover having locking and watering arrangement with funnel I/c provision of Salt, Charcoal as per IS - 3043. - In soft soil	EA	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
61	3007288	Providing Plate Earthing including supply of 600mm x 600mm x 6mm GI Plate, masonry encloser with hinged CI cover having locking and watering arrangement with funnel I/c provision of Salt, Charcoal as per IS - 3043. - In rocky area	EA	34		
62	3002897	Providing artificial earthing with common salt and charcoal and earthing rod, stay wire of size 7/8-10 SWG wire upto ground level. Separate GI pipe 1" with plugging arrangement is to be provided for watering the earthing as per ISI/BSES design.The eye will be made for fixing wire in earth pipe/rod with nut&bolt arrangement.Salt,charcoal, masonry material and top enclosure cover and all earthing material shall be provided by contractor. For rocky soil.	EA	420		
63	3002898	Providing artificial earthing with common salt and charcoal and earthing rod, stay wire of size 7/8-10 SWG wire upto ground level. Separate GI pipe 1" with plugging arrangement is to be provided for watering the earthing as per ISI/BSES design.The eye will be made for fixing wire in earth pipe/rod with nut&bolt arrangement.Salt,charcoal, masonry material and top enclosure cover and all earthing material shall be provided by contractor . For semi rocky Soil.	EA	14		
64	3002899	Providing artificial earthing with common salt and charcoal and earthing rod, stay wire of size 7/8-10 SWG wire upto ground level. Separate GI pipe 1" with plugging arrangement is to be provided for watering the earthing as per ISI/BSES design.The eye will be made for fixing wire in earth pipe/rod with nut&bolt arrangement.Salt,charcoal, masonry material and top enclosure cover and all earthing material shall be provided by contractor . For normal Soil.	EA	1		
65	3007031	Installation of Earth Electrode without chamber by 40mm dia 3m long electrode, fabrication and fixing of clamps and test links, including supply of salt and charcoal. as per IS-3043	EA	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
66	3009075	Laying of G.I strip from the main earth electrode upto the transformer body, neutral point, RMU, LT/HT Panel etc. including passing through suitable GI pipe clamping etc. wherever required and the proper end connections (supply of nuts, bolts, washers in the contractor scope) G.I strip of 75x12 sq.mm.	M	1		
67	3009076	Laying of G.I strip from the main earth electrode upto the transformer body, neutral point, RMU, LT/HT Panel etc. including passing through suitable GI pipe clamping etc. wherever required and the proper end connections (supply of nuts, bolts, washers in the contractor scope) G.I strip of 75x10 sq.mm.	M	1		
68	3007064	Laying of G.I strip from the main earth electrode upto the transformer body, neutral point, RMU, LT/HT Panel etc. including passing through suitable GI pipe clamping etc. wherever required and the proper end connections (supply of nuts, bolts, washers in the contractor scope) G.I strip of 50x6 sq.mm.	M	16656.9		
69	3006416	Laying of G.I strip from the main earth electrode upto the transformer body, neutral point, RMU, LT/HT Panel etc. including passing through suitable GI pipe clamping etc. wherever required and the proper end connections (supply of nuts, bolts, washers in the contractor scope) G.I strip of 25x6 sq.mm.	M	45622		
70	3009077	Laying of G.I strip from the main earth electrode upto the transformer body, neutral point, RMU, LT/HT Panel etc. including passing through suitable GI pipe clamping etc. wherever required and the proper end connections (supply of nuts, bolts, washers in the contractor scope) G.I strip of 25x3 sq.mm.	M	1		
71	3007048	Fabrication, drilling for perforation and welding of 2-nos of G.I Strips of size 25mm x 6mm x 75mm with 40mm dia 3 mtr GI pipe as earth electrode to take out the connection of double earth	EA	1		
72	3009078	Supply and laying of 75 x12 mm G I strip to connect all earth electrode in parallel with double connection to the transformer / any switch gear as per site requirement	M	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
73	3009079	Supply and laying of 75 x10 mm G I strip to connect all earth electrode in parallel with double connection to the transformer / any switch gear as per site requirement	M	1		
74	3003201	Supply and laying of 50 x 6 mm G I strip to connect all earth electrode in parallel with double connection to the transformer / any switch gear as per site requirement	M	3762		
75	3003676	Supply and laying of 25 x 6 mm G I strip to connect all earth electrode in parallel with double connection to the transformer / any switch gear as per site requirement	M	289		
76	3009080	Supply and laying of 25 x 3 mm G I strip to connect all earth electrode in parallel with double connection to the transformer / any switch gear as per site requirement	M	60		
77	3003731	Making earthing grid of old earth by Jointing & Socketing and Connecting the same to all metal parts by stay wire at any type of sub stn. Rates are for each S/Stn Job.	EA	1		
78	3003725	Providing & Fixing of G.I. earth clamp on cable including socketing & connecting the same.	EA	1		
79	3004885	Providing & Fabrications of wooden cleats each with two holes for running of GI stay wire or cable as required set of two nos.	EA	14		
80	3007312	Dismantalling of poles of following sizes after digging the pit and taking out the pole and stacking the pole at a proper place in safe positions and refilling the pit with loose earth and ramming including removal of Malba. PCC/RCC 30'/28'/27' Long.	EA	226		
81	3002916	Dismantalling of poles of following sizes after digging the pit and taking out the pole and stacking the pole at a proper place in safe positions and refilling the pit with loose earth and ramming including removal of Malba. PCC/RCC 36' Long.	EA	355		
82	3002919	Dismantalling of poles of following sizes after digging the pit and taking out the pole and stacking the pole at a proper place in safe positions and refilling the pit with loose earth and ramming including removal of Malba. 9 Mtr Steel Tub pole	EA	2		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
83	3007900	Dismantling of poles of following sizes after digging the pit and taking out the pole and stacking the pole at a proper place in safe positions and refilling the pit with loose earth and ramming including removal of Malba. Street light St. Tub. Poles of any type	EA	1		
84	3002920	Dismantling of poles of following sizes after digging the pit and taking out the pole and stacking the pole at a proper place in safe positions and refilling the pit with loose earth and ramming including removal of Malba.. MS rails/Struts.	EA	9		
85	3002922	Dismantling of conductor of the following sizes from the O/H. line recoiling of the conductor and stacking the same at tent site. All sizes of Earth Wire or Conductor below the size of Dog conductor.	M	7415		
86	3002923	Dismantling of conductor of the following sizes from the O/H. line recoiling of the conductor and stacking the same at tent site. Wolf conductor & above Dog .	M	1550		
87	3002924	Removal of all hardware fitting & insulators etc. from all sizes of poles & stacking the material at tent site.(Rates are for each Pole). LT pole.	EA	258		
88	3002925	Removal of all hardware fitting & insulators etc. from all sizes of poles & stacking the material at tent site.(Rates are for each Pole). HT Pole.	EA	41		
89	3002926	Removal of following sizes of st. Itg. Fitting with hardware etc. including the safe transportation to the tent site and stacking the material properly. Fluorescent type fittings.	EA	9		
90	3002927	Removal of following sizes of st. Itg. Fitting with hardware etc. including the safe transportation to the tent site and stacking the material properly. Swan neck type fittings.	EA	1		
91	3002928	Removal of following sizes of st. Itg. Fitting with hardware etc. including the safe transportation to the tent site and stacking the material properly. HPMV/HPSV fittings (Tower wagon shall be provided by BSES, free of cost).	EA	288		
92	3002929	Dismantling of PVC/WP catenary cables from O/H line including earth wire and stacking at tent site. Single/two core cables of size up to 25 sq. mm.	M	115703		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
93	3002930	Dismantling of PVC/WP catenary cables from O/H. line including earth wire and stacking at tent site. Single/two core cable of size above 25 sq. mm to 95 sq. mm	M	1		
94	3002931	Dismantling of PVC/WP catenary cables from O/H. line including earth wire and stacking at tent site. Single/two core cables above 95 sq. mm.	M	1		
95	3002932	Dismantling of PVC/WP catenary cables from O/H. line including earth wire and stacking at tent site. 4 core cable of size upto 25 sq. mm.	M	475		
96	3002933	Dismantling of PVC/WP catenary cables from O/H. line including earth wire and stacking at tent site. 4 core cable of size above 25 sq. mm and upto 95 sq. mm.	M	158		
97	3002934	Dismantling of PVC/WP catenary cables from O/H. line including earth wire and stacking at tent site. 4 core cable of size above 95 sq. mm and upto 150 sq. mm	M	430		
98	3002935	Dismantling of PVC/WP catenary cables from O/H. line including earth wire and stacking at tent site. 4 core cables of size above 150 sq. mm.	M	3487		
99	3002936	Dismantling of service pillar including removal of connections of existing cables and its transportation to the tent site.	EA	1		
100	3002937	Dismantling of feeder pillar including removal of connections of existing cables and its transportation to the tent site.	EA	311		
101	3004874	Dismantling ,re-fixing and connection with O/H. line of following type of service cable from old O/H. line after digging of trenches in all types of soil, in case of U/G service cables including cutting of roads/pucca foot path/ ramps of houses and relaying. U/G. services cables of all sizes:	M	1		
102	3003203	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 11 KV single panel	EA	3		

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103	3003204	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 11 KV RMU	EA	108		
104	3003205	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 11 KV 4 panel board	EA	1		
105	3003206	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 11 KV 7 panel board	EA	1		
106	3003207	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). LT board suitable for 315/400 KVA.	EA	1		
107	3003208	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). LT board suitable for 630 KVA.	EA	5		
108	3003209	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). LT board suitable for 990 KVA.	EA	3		
109	3003210	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 315/400 KVA Transformer.	EA	11		

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110	3003211	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 500/630 KVA Transformer.	EA	58		
111	3003212	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 990 KVA Transformer.	EA	130		
112	3003229	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For 315/400/500/630 KVA Transformers	EA	20		
113	3003230	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For 100 KVA Transformers	EA	18		
114	3006085	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For 16/25 KVA Transformers	EA	222		
115	3003231	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For 11 KV G.O. Switch 400/200 Amps	EA	1		
116	3003232	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For 11 KV D.D. Fuse unit	SET	2994		
117	3003236	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For Lightning Arrestors	SET	1		
118	3003233	Dismantling from existing P/M S/Stn or I/D s/stn. The work includes their removal & stacking at tent site and loading unloading For LT ACB of all ratings.	EA	461		
119	3003237	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For 11 KV bus bars and insulators	SET	2		

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120	3003238	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For Taking down of HT feeder with cable end box and supporting pipes	EA	4		
121	3003239	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For Taking down of LT feeder with cable end box and GI pipes	EA	1		
122	3003240	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For Removal of all the angle Irons channel - frames/ clamps etc. on 2 pole structure	EA	282		
123	3003241	Dismantling from existing P/M S/Stn. The work includes their removal & stacking at tent site and loading unloading For Removal of all the angle Iron channel/MS flat frames/platform clamps etc on 4 pole structure.	EA	3		
124	3004886	Dismantling of HT cable between transformer and HT panel.	M	812		
125	3004887	Dismantling of LT leads between transformer and LT panel or LT Main to feeders switch (For all the leads and for all rating of Trs.)	M	4165		
126	3003276	Dismantling of metering cubical including their safe removal and stacking at tent site within one Km	EA	27		
127	3003277	Dismantling of ICTP switches of all ratings. including their safe removal and stacking at tent site within one Km.	EA	1		
128	3007289	Dismantling of the following from kiosk/indoor type Sub. stn. including their safe removal and stacking at tent site. (the work includes the removal of all the electrical / earth connections).:- LT APFC Panel , 200 / 300 KVAR	EA	2		
129	3007038	Disconnection or Connection of 11KV XLPE Cable of following sizes: 3cX 150 sq.mm.	EA	494		
130	3007039	Disconnection or Connection of 11KV XLPE Cable of following sizes: 3cX 300 sq.mm.	EA	1297		
131	3007040	Disconnection or connection of LT cable of following sizes : LT 2 core cable of any size.	EA	63580		

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132	3007041	Disconnection or connection of LT cable of following sizes : LT Cable upto 4x50 sq. mm	EA	9129		
133	3007042	Disconnection or connection of LT cable of following sizes : LT Cable from 3.5cx 95 sq. mm to 3.5c185sq.mm.	EA	1432		
134	3007043	Disconnection or connection of LT cable of following sizes : LT Cable 3.5cx 300 sq. mm	EA	2654		
135	3007044	Disconnection or connection of LT cable of following sizes : - LT Cable 1c x 630 sq.mm.	EA	2666		
136	3007320	Dismantling / Reclaiming and de-termination of HV cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 11 kV, 3CX300 sqmm XLPE cable (digging will be extra and applicable same as in case of cable laying)	M	1162		
137	3007321	Dismantling / Reclaiming and de-termination of HV cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 11 kV, 3CX150 sqmm XLPE cable (digging will be extra and applicable same as in case of cable laying)	M	176.5		
138	3007322	Dismantling / Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 3.5 Cx 300 sqmm, Al (digging will be extra and applicable same as in case of cable laying)	M	119		
139	3007323	Dismantling / Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 3.5 Cx 150 sqmm, Al (digging will be extra and applicable same as in case of cable laying)	M	1		

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140	3007324	Dismantling / Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for below 3.5Cx150 up to 3.5Cx95 (digging will be extra and applicable same as in case of cable laying)	M	80		
141	3007325	Dismantling / Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for below 3.5 Cx 95 sq.mm,AL. (digging will be extra and applicable same as in case of cable laying)	M	1		
142	3003708	Dismantelling and demolishing concrete work for all types of structure at all levels including stacking of structure at all levels including stacking of serviceable material, cutting reinforcement, labour, equipment, safety precautions, all complete as per specification, drawing and instruction of engineer. - Plain cement concrete of all grades	CUM	360.829		
143	3003709	Dismantelling and demolishing concrete work for all types of structure at all levels including stacking of structure at all levels including stacking of serviceable material, cutting reinforcement, labour, equipment, safety precautions, all complete as per specification, drawing and instruction of engineer. - Reinforced Cement concrete of all grades	CUM	788		
144	3007901	Dismantelling of the following LT AB cables, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc. - 3 cores of 95 sqmm, 1 core of 50 sqmm Al conductor with XLPE insulation and messenger wire (with or without one 16 sq.mm. additional core for lighting)	M	3373		

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145	3007902	Dismantalling of the following LT AB cables, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc. - 3 cores of 50 sqmm, 1 core of 25 sqmm Al conductor with XLPE insulation and messenger wire (with or without one 16 sq.mm. additional core for lighting)	M	1		
146	3007903	Dismantalling of the following LT AB cables, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc. - 3 cores of 150/120sqmm, 1 core of 70 sqmm Al conductor with XLPE insulation and messenger wire (with or without one 16 sq.mm. additional core for lighting)	M	13252		
147	3007904	Dismantalling of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 16-95 sqmm, Tap cables size : 4-35 sqmm	EA	128		
148	3007905	Dismantalling of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 50-150 sqmm, Tap cables size : 6-35 sqmm	EA	16		
149	3007906	Dismantalling of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 25-95 sqmm, Tap cables size : 25-95 sqmm	EA	2		
150	3007907	Dismantalling of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 50-150 sqmm, Tap cables size : 50-150 sqmm	EA	13794		
151	3007908	Dismantalling of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 16-95 sqmm, Tap cables size : 1.5-10 sqmm	EA	1360		
152	3007909	Dismantalling of - Single Phase DB complete as required.	EA	3451		
153	3007910	Dismantalling of - Three Phase DB complete as required.	EA	873		
154	3007911	Dismantaling of Eye Hook/Dead end clamp or any type of hook or clamp used for AB Cable erection.	EA	2549		

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155	3009081	Dismantling of Cable of following size with 3 core Al. Conductor (XLPE Insulated) and 1 Core bare Al. messenger Cum neutral - HT AB Cable 3Cx150+1Cx150 sqmm	M	3862		
156	3009082	Dismantling of Cable of following size with 1 core Al. Conductor (XLPE Insulated) and 1 Core bare Al. messenger Cum neutral - HT AB Cable 1c x95+1cx34 sq. mm	M	83767		
157	3002677	Labour charges for digging of the trench as per B.S.E.S.practice of the required size for service cables including the backfilling with the excavated earth and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated. Digging of Cable trench in ordinary soil for 1.1 KV LT 4 x 95/50/25 & 2X25/10 sq mm .	CUM	758.8		
158	3007258	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of Cable trench in ordinary soil for 1.1 KV LT 3.5X300 sq mm Single Circuit/Double Circuit/Triple Circuit of size 400X875 mm as per Drg.# 8 Type A-1.	M	5424		
159	3007259	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of Cable trench in ordinary soil for 1.1 KV LT 3.5X150 sq mm Single Circuit/Double Circuit/Triple Circuit of size 400X875 mm as per Drg.# 9 Type A-1.	M	86		

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160	3007330	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of Cable trench in ordinary soil for 11KV H.T. 3X150/300 sq mm Single Circuit of size 400X1055 mm as per Drg.# 6,TYPE A-2.	M	4888		
161	3007331	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of Cable trench in ordinary soil for 11KV H.T. 3X150/300 sq mm Double Circuit of size 650X1055 mm as per Drg.# 7,TYPE B-1.	M	1567		
162	3005508	Labour charges for digging of the trench as per B.S.E.S.practice of the required size for service cables including the backfilling with the excavated earth and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated. Digging of cable trench in brick work for 1.1 KV LT 4X95/50/25 & 2X25/10 sq.mm .	CUM	20		
163	3007332	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less.. Digging of cable trench in brick work for 1.1 KV LT 3.5X300 sq.mm Single Circuit/Double/Triple Circuit of size 400X875 mm as per Drg.# 8 Type-A-1	M	1		

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164	3007333	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less.. Digging of cable trench in brick work for 1.1 KV LT 3.5X150 sq.mm Single Circuit/Double/Triple Circuit of size 400X875 mm as per Drg.# 9 Type-A-1.	M	50		
165	3007334	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less.. Digging of cable trench in brick work for 11 KV H.T 3X150/300 sq.mm Single Circuit of size 400X1055 as per Drg.#6,TYPE A-2.	M	35		
166	3007335	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less.. Digging of cable trench in brick work for 11 KV H.T 3X150/300 sq.mm Double Circuit of size 650X1055 mm as per Drg.#7,TYPE B-1.	M	1		
167	3005509	Labour charges for digging of the trench as per B.S.E.S.practice of the required size for service cables including the backfilling with the excavated earth and disposing the surplus excavated material all complete . Payment shall be released as per actual depth excavated.. Digging of cable trench in foot- path of tile /Rajasthani stone/Kota stone/Agra stone/Tiles for 1.1KV LT 4X95/50/25 & 2X25/10 sq.mm .	CUM	65		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
168	3007336	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in foot- path of tile /rajasthani stone/Kota stone/Agra stone/Tiles for 1.1KV LT 3.5X300 sq.mm Single/Double/Triple of size 400X875 mm as per Drg.# 8 Type A-1.	M	457		
169	3007337	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in foot- path of tile /rajasthani stone/Kota stone/Agra stone/Tiles for 1.1KV LT 3.5X150 sq.mm Single/Double/Triple of size 400X875 mm as per Drg.# 9 Type A-1.	M	1		
170	3007338	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in foot- path of tile /rajasthani stone/Kota stone/Agra stone/Tiles for 11KV H.T. 3X150/300 sq.mm Single Circuit of size 400X1055 mm as per Drg.#6, Type# A-2.	M	73		

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171	3007339	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in foot- path of tile /rajasthani stone/Kota stone/Agra stone/Tiles for 11KV H.T. 3X150/300 sq.mm Double Circuit of size 650X1055 mm as per Drg.#7, Type# B-1	M	5		
172	3005510	Labour charges for digging of the trench as per B.S.E.S.practiceof the required size for service cables including the backfilling with the excavated earth and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated.. Digging of cable trench in Ordinary Bituminous Road for 1.1KV LT 4X95/50/25 & 2X25/10 sq.mm .	CUM	307		
173	3007350	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Ordinary Bituminous Road for 1.1KV LT 3.5X300 sq.mm Single/Double/Triple Circuit of size 400X875 mm as per Drg.# 8 Type A-1.	M	3366		
174	3007351	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Ordinary Bituminous Road for 1.1KV LT 3.5X150 sq.mm Single/Double/Triple Circuit of size 400X875 mm as per Drg.# 9 Type A-1.	M	40		

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175	3007352	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Ordinary Bituminious Road for 11 KV H.T. 3X150/300 sq.mm Single Circuit of size 400X1055 mm as per Drg.#6,Type A-2	M	519		
176	3007353	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Ordinary Bituminious Road for 11 KV H.T. 3X150/300 sq.mm Double Circuit of size 650X1055 mm as per Drg.#7,Type B-1	M	458		
177	3005511	Labour charges for digging of the trench as per B.S.E.S.practice of the required size for service cables including the backfilling with the excavated earth and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 1.1KV LT 4X95/50/25 & 2X25/10 sq.mm Single Circuit/Double circuit.	CUM	2214.86		
178	3007354	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 1.1KV LT 3.5X300 sq.mm Single /Double / Triple circuit of size 400X875 mm as per Drg.# 8,Type A-1.	M	47904.5		

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179	3007355	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 1.1KV LT 3.5X150 sq.mm Single /Double / Triple circuit of size 400X875 mm as per Drg.# 9,Type A-1.	M	173		
180	3007356	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 11KV H.T. 3X150/300 sq.mm Single Circuit of size 400X1055 mm as per Drg.# 6 and Type A-2.	M	18822		
181	3007357	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 11KV H.T. 3X150/300 sq.mm Double Circuit of size 650X1055 mm as per Drg.# 7 and Type B-1	M	2267		
182	3002679	Labour charges for digging of the trench as per B.S.E.S.practice of the required size for service cables including the backfilling with the excavated earth and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated. Digging of cable trench in Rocky area for 1.1KV LT 4X95/50/25 & 2X25/10 sq.mm .	CUM	142.5		

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183	3007358	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Rocky area for 1.1KV LT 3.5X300 sq.mm Single Circuit/Double Circuit/Triple Circuit of size 400X875 mm as per Drg.# 8 Type A-1.	M	23786		
184	3007359	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Rocky area for 1.1KV LT 3.5X150 sq.mm Single Circuit/Double Circuit/Triple Circuit of size 400X875 mm as per Drg.# 9 Type A-1.	M	209		
185	3007360	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Rocky area for 11KV HT 3X150/300 sq.mm Single Circuit of size 400X1055 mm as per Drg.#6 TYPE# A-2.	M	865		
186	3007361	Labour charges for digging of the trench of the required size including the backfilling with the excavated earth and ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Rocky area for 11KV HT 3X150/300 sq.mm Double Circuit of size 650X1055 mm as per Drg.#7 TYPE# B-1	M	20		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
187	3004915	Labour charges for laying of pipe in already excavated trench including all jointing materials and dressing and ramming of the bottom before laying of pipes. B Class GI Pipe 50mm dia.	M	1		
188	3004916	Labour charges for laying of pipe in already excavated trench including all jointing materials and dressing and ramming of the bottom before laying of pipes. B Class GI Pipe 100mm dia.	M	6242		
189	3004917	Labour charges for laying of pipe in already excavated trench including all jointing materials and dressing and ramming of the bottom before laying of pipes. B Class GI Pipe 150mm dia.	M	1977		
190	3004918	Labour charges for laying of pipe in already excavated trench including all jointing materials and dressing and ramming of the bottom before laying of pipes. B Class GI Pipe 200mm dia.	M	2213		
191	3007370	Digging of Test pit of the required size at site for identification of the cable alongwith refilling with loose earth and ramming the surface including removal of Malba :The volume of this shall be deducted from Item Labour charges for digging of this schedule(Only for those test pit which are lying on the cable digging route) . For Ordinary Soil	CUM	33.21		
192	3007371	Digging of Test pit of the required size at site for identification of the cable alongwith refilling with loose earth and ramming the surface including removal of Malba.The volume of this shall be deducted from Item Labour charges for digging of this schedule(Only for those test pit which are lying on the cable digging route) . For Brick Work Portion.	CUM	1		
193	3007372	Digging of Test pit of the required size at site for identification of the cable alongwith refilling with loose earth and ramming the surface including removal of Malba. The volume of this shall be deducted from Item Labour charges for digging of this schedule(Only for those test pit which are lying on the cable digging route) . For Ordinary Bitumens Portion.	CUM	372.2		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
194	3007373	Digging of Test pit of the required size at site for identification of the cable alongwith refilling with loose earth and ramming the surface including removal of Malba. The volume of this shall be deducted from Item Labour charges for digging of this schedule(Only for those test pit which are lying on the cable digging route). For Dense Carpet/CC Portion/Asphaltic Road Portion.	CUM	2849.47		
195	3007374	Digging of Test pit of the required size at site for identification of the cable alongwith refilling with loose earth and ramming the surface including removal of Malba.The volume of this shall be deducted from Item Labour charges for digging of this schedule(Only for those test pit which are lying on the cable digging route). For Rocky Portion.	CUM	973.75		
196	3007375	Digging of Test pit of the required size at site for identification of the cable alongwith refilling with loose earth and ramming the surface including removal of Malba.The volume of this shall be deducted from Item Labour charges for digging of this schedule(Only for those test pit which are lying on the cable digging route). For Unmetalled pucca/Foothpath of tiles/Agra stone/Kota stone/Rajasthan stone Portion.	CUM	1		
197	3003157	Digging of joints pits as required, docketing with bricks and sand of the joint & refilling with loose earth and ramming the surface including removal malba. Brick and sand shall be supplied by the contractor	EA	765		
198	3007376	Laying of under- ground HT. cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 75mm below and 75mm above the cable.Also a warning tape above 224 mm of the docket be laid.) and including watch and ward till charging of cable of size 3X150/300 sq.mm.11KV.Single Circuit,as per Drg.#6, Type A-2.	M	32012		

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199	3007377	Laying of under- ground HT. cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 75mm below and 75mm above the cable.Also a warning tape above 224mm of the docket be laid.) and including watch and ward till charging of cable of size 3X150/300 sq.mm.11KV.Double Circuit,as per Drg.#7, Type B-1.	M	1394		
200	3007378	Laying of under- ground LT cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 65mm below and 75mm above the cable. Also a warning tape above 224mm of the docket be laid) and including watch and ward till charging of cable of size 3.5X300 sq.mm.Single Circuit,as per Drg.# 8,Type A-1.	M	38248.5		
201	3007912	Laying of under- ground LT cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 65mm below and 75mm above the cable. Also a warning tape above 224mm of the docket be laid) and including watch and ward till charging of cable of size 3.5X300 sq.mm.Double Circuit,as per Drg.# 8,Type A-1.	M	3624		
202	3007913	Laying of under- ground LT cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 65mm below and 75mm above the cable. Also a warning tape above 224mm of the docket be laid) and including watch and ward till charging of cable of size 3.5X300 sq.mm.Triple Circuit,as per Drg.# 8,Type A-1.	M	945		

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203	3007379	Laying of under- ground LT cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 75mm below and 80mm above the cable. Also a warning tape above 300mm of the docket be laid) and including watch and ward till charging of cable of size 3.5X150 sq.mm.Single Circuit,as per Drg.# 9,Type A-1.	M	1585		
204	3007914	Laying of under- ground LT cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 75mm below and 80mm above the cable. Also a warning tape above 300mm of the docket be laid) and including watch and ward till charging of cable of size 3.5X150 sq.mm.Double Circuit,as per Drg.# 9,Type A-1.	M	126		
205	3007916	Laying of under- ground LT cable in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 75mm below and 80mm above the cable. Also a warning tape above 300mm of the docket be laid) and including watch and ward till charging of cable of size 3.5X150 sq.mm.Triple Circuit,as per Drg.# 9,Type A-1.	M	1		
206	3007380	Laying of under- ground LT Service cables in trench ,docketing with bricks & sand as per BSES specifications, refilling the trench and ramming the surface & removal of malba if any, including supply of IInd class bricks and sand (Sand cushion min 50mm below the cable and 50mm above the cable.)and including watch and ward till charging of cable up to 4X95/50/25 sq.mm & 2X25/10 sq.mm.	M	16079		
207	3003168	Fixing of route / joint marker on cable routes by grouting with stone blast and coarse sand including supply of cement, stone ballast and sand.	EA	1		

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208	3003169	Laying of HT/LT cable of following size in S/ Stn. Trench. above 150 sq.mm.	M	34387.5		
209	3003170	Laying of HT/LT cable of following size in S/ Stn. Trench. Above 70 sq mm upto 150 sqmm	M	805		
210	3003171	Laying of HT/LT cable of following size in S/ Stn. Trench. Up to 70 sqmm.	M	454		
211	3003172	Laying of HT/LT cables through GI Pipe /RCC hume pipe. Up to 50 sqmm	M	5893		
212	3003173	Laying of HT/LT cables through GI Pipe /RCC hume pipe. above 50 sqmm upto 150 sqmm.	M	3857		
213	3003174	Laying of HT/LT cables through GI Pipe /RCC hume pipe. above 150 sqmm upto 300 sqmm.	M	182701		
214	3003175	Laying of HT 11kV cable of different sizes on the existing over hanging cables trays.	M	588		
215	3007806	Mounting of HT cables on pole,after passing through suitable size of GI pipe proper Clamping and proving and fixing wooden bush alongwith clamping of end box. of size 3 x 150 sqmm and above /pole.(The length of cable to be mounted on pole should be excluded from the laying length)	M	862		
216	3007807	Mounting of LT cables on pole,after passing through suitable size of GI pipe proper Clamping and proving and fixing wooden bush alongwith clamping of end box. Above Of size 150 sqmm /pole.(The length of cable to be mounted on pole should be excluded from the laying length.)	M	7510		
217	3007808	Mounting of cables on pole,after passing through suitable size of GI pipe proper Clamping and proving and fixing wooden bush alongwith clamping of end box. 4 x 95 sqmm to 4 x 150 sqmm/pole	M	108		
218	3007809	Mounting of cables on pole,after passing through suitable size of GI pipe proper Clamping and proving and fixing wooden bush alongwith clamping of end box. 2 x 10 / 2 x 25 / 4 x 10 / 4 x 25 / 4 x 50 sqmm/pole	M	465		
219	3003180	Providing and fixing PVC Bushes for various sizes of cable (with materail).	EA	450		

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220	3003185	Fixing of GI Pipe on the edges of culvert/ Nalla/ Bridge for crossing of HT/LT cables of various sizes with proper clamps etc. including fabrication work and supply of Cement (GI Pipe / Steel to be provided by BSES).	M	149		
221	3005516	Supply and Laying of GI pipe 6" dia 2nd class ISI mark for crossing the various nallah on route including supply and fabrication of support of M.S. channe/Angle with petty masonry work for grouting of support. Badarpur stone ballast, cement and bricks shall be supplied by the contractor.	M	0.1		
222	3005518	Supply and Laying of GI pipe 6" dia 2nd class ISI mark for crossing the various nallah.	M	1		
223	3004932	Cleaning and clearing of malba after completion of work at site or removal of malba to carry out the work at site (This item is not applicable for removal of malba in digging and cable laying and Pole erection work)	CUM	34229.4		
224	3005515	High Voltage test of 11KV 3x300sq.mm cable - Testing Equipment to be provided by the contractor.	EA	922		
225	3005528	Optional price for Continuous Steel Barricading of 1.2 M High including cost of all materials.40% quantity for selected location per meter Trench	M	400		
226	4060000	Charges for carrying out Route survey and identification of underground utilities of various civic agencies before/during execution of scheme involving cable laying work. Route length will be considered for payment. Route will be specifically verified by DGM.	M	157963		
227	3003190	Installation , testing and commissioning of following sizes including unpacking leveling grouting, coupling tapping oil fillings & earth connection etc. as required Ist class bricks,cement and sand to be supplied by the contractor. 11 KV metering cubical.	EA	49		
228	3003191	Installation , testing and commissioning of LT Board of following sizes including leveling grouting, coupling tapping & earth connection etc. as required Ist class bricks,cement and sand to be supplied by the contractor., Suitable for 400 KVA Transformer.	EA	10		

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229	3003192	Installation , testing and commissioning of LT Board of following sizes including leveling grouting, coupling tapping & earth connection etc. as required Ist class bricks,cement and sand to be supplied by the contractor., Suitable for 630 KVA Transformer.	EA	10		
230	3003193	Installation , testing and commissioning of LT Board of following sizes including leveling grouting, coupling tapping & earth connection etc. as required Ist class bricks,cement and sand to be supplied by the contractor., Suitable for 990 KVA Transformer.	EA	3		
231	3006084	Installation , testing and commissioning of 11/0.433 KV distribution transformer of following sizes on existing structure including jumpering of HT side and connecting the leads on LT side: 16 or 25 KVA Tr. On 2-pole/single pole structure.	EA	770		
232	3003265	Installation , testing and commissioning of 11/0.433 KV distribution transformer of following sizes on existing structure including jumpering of HT side and connecting the leads on LT side: 100 KVA Tr. On 2-pole structure.	EA	8		
233	3003194	Installation , testing and commissioning of 11/0.433 KV distribution Transformer of following sizes on existing plinth including grouting of frames required on HT & LT side for cables as per BSES Design & practice. 315/400 KVA Transformer.	EA	10		
234	3003267	Installation , testing and commissioning of 11/0.433 KV distribution transformer of following sizes on existing structure including jumpering of HT side and connecting the leads on LT side: 400 KVA on 2-pole structure any type.	EA	9		
235	3003268	Installation , testing and commissioning of 11/0.433 KV distribution transformer of following sizes on existing structure including jumpering of HT side and connecting the leads on LT side: 630 KVA on 4-pole structure any type.	EA	1		
236	3003195	Installation , testing and commissioning of 11/0.433 KV distribution Transformer of following sizes on existing plinth including grouting of frames required on HT & LT side for cables as per BSES Design & practice. 630 KVA Transformer any type.	EA	39		

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237	3003196	Installation , testing and commissioning of 11/0.433 KV distribution Transformer of following sizes on existing plinth including grouting of frames required on HT & LT side for cables as per BSES Design & practice. 1000 KVA Transformer any type	EA	255.5		
238	3009941	Protection testing of dry type transformer of 400/630/990KVA capacity including laying of control cable in between dry type transformer 11KV switchgear and AVV23 relays including providing and transportation of testing equipment at site. The test to be conducted are insulation resistance (IR) test, turns ratio test, winding resistance measurement, magnetizing current measurement and HT door opening/ closing with protective AVV-23 relays.	EA	73		
239	3010001	Dragging of Old/New Distribution Transformers of 400 to 990 KVA ratng of oil/dry type as per standard practice from more than 10 mtr to 30 mtrs.	EA	165		
240	3010002	Dragging of Old/New Distribution Transformers of 400 to 990 KVA ratng of oil/dry type as per standard practice from more than 30 mtr to 60 mtrs.	EA	68		
241	3010003	Dragging of Old/New Distribution Transformers of 400 to 990 KVA ratng of oil/dry type as per standard practice for more than 60 mtrs (rates are per mtr)	M	630		
242	3007381	Laying and connecting of LT single core cable of size 300 sq. mm. from TR to LT Main including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 100 KVA P/M Transformer S/Stn.	EA	5		
243	3007382	Laying and connecting of LT single core cable of size 630 sq. mm. from TR to LT Main including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 315/400 KVA P/M Transformer S/Stn.	EA	39		

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244	3003197	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 630 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 315/400 KVA Transformer	EA	3		
245	3003198	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 630 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 630 KVA Transformer	EA	43		
246	3003199	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 630 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 990 KVA Transformer	EA	271.5		
247	3005318	Laying additional or new single core cable or replacing existing cables with proper clamping. - 150 sqmm	M	15		
248	3005319	Laying additional or new single core cable or replacing existing cables with proper clamping. - 300 sqmm	M	723		
249	3005320	Laying additional or new single core cable or replacing existing cables with proper clamping. - 630 sqmm	M	7610		
250	3003202	Fixing of fire extinguishers/ bucket by means of proper hooks clamps etc. as required including grouting and painting of hooks/clamps.	EA	1		
251	3007383	Mounting of following accessories on the existing structure of P/M S/Stn.by means of suitable nut,bolts &clamps etc.complete as reqd.for 100/315/400/630 KVA TRFR. 11K.V.BUS-BARS & INSULATORS.	EA	2		

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252	3004919	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc.electrically interconnecting with each other after Crimping the sockets an Interconnection of equipment / jumpering to the equipment by Al. conductor / cable leads.	M	1		
253	3003705	Mounting , testing and commissioning of following accessories on the existing structure of P/M S/Stn or I/D s/stns . By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an LT ACB 400/800 Amps.	EA	262		
254	3003219	Mounting , testing and commissioning of following accessories on the existing structure of P/M S/Stn or I/D s/stns. By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an LT ACB 1250 Amps.	EA	328		
255	3003220	Mounting , testing and commissioning of following accessories on the existing structure of P/M S/Stn or I/D s/stns. By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an LT ACB 2000 Amps.	EA	264.5		
256	3003221	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an LT ICTP Switch fuse unit 400 Amps.	EA	1		
257	3003222	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an LT ICTP Switch fuse unit 200 Amps.	EA	1		

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258	3003223	Mounting of following accessories on the existing structure of P/M S/Stn. By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets an LT ICTP Switch fuse unit 100 Amps.	EA	1		
259	3010012	Installation of timer switch on pole including clamping with pole	EA	1		
260	3007046	Installation of Lighting Panel / timer switch on wall / pole including grouting over wall / clamping with pole (supply of material for grouting / clamping by contractor)	EA	1		
261	3003707	Providing, supplying and laying minimum 150 mm thick gravel filling after cleaning and leveling of site. Size of gravel should be between 20mm including dressing, compacting etc. All stone used shall be granite stone free from dirt or organic material.	CUM	1908.37		
262	3003224	Mounting of following accessories on the existing structure of P/M S/Stn/HT Line/HT Panels/where ever required . By means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets. Erection of 11kV O/D or I/D Cable end box	EA	433		
263	3004882	Mounting of following accessories on the existing structure of P/M S/Stn.or any s/stn.by means of suitable nut, bolts & clamps etc.i/c.connections after Crimping the sockets. Laying of LT U/G PVC/XLPE cables of various sizes upto ICTP switches on 2/4 pole strcutures/where ever required.	M	1		
264	3003257	Drilling of cables holes in S/Stn. walls as required.	EA	151		
265	3003256	Plugging of cable holes in S/Stn. Walls (all material will be supplied by the contractor to complete the job) 30CM x 30 CM	EA	74		
266	3003255	Plugging of cable holes in S/Stn. Walls (all material will be supplied by the contractor to complete the job) 60CM x 30CM	EA	10		

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267	3004890	Inter connection of metering cubicles ,for metering S/Stn. with the help of GI conduit pipe of required size at the S/Stn. including welding of pipe threading holding and fixing of pipe sockets etc. (Only GI conduit pipe of required size will be provided by BSES).	M	1		
268	3003271	Enlargement of holes in the bottom plate of the H.T. switch gear for cable entry (Reqd.for jointing purposes).	EA	15		
269	3004891	Providing and Fabrications of wooden cleats for supporting LT S/C cable from transformer to LT board with suitable size of holes as required. (Material will be supplied by the contractor). Cleats with 4 holes	EA	10		
270	3004892	Providing and Fabrications of wooden cleats for supporting LT S/C cable from transformer to LT board with suitable size of holes as required. (Material will be supplied by the contractor). Cleats with 7-11 holes	EA	125		
271	3004893	Providing and Fabrications of wooden cleats for supporting HT cable from Transformer to H.T.Switchgear with suitable size of holes as required. (Material will be supplied by the contractor). Cleats with single hole for HT cable	EA	233		
272	3003275	Making of masonry plinth for placing the transformer with 90cm hieght above the ground level and 30cm below ground complete with bricks, cement, badarpur in the ratio of 1:6 and duly plastered on all sides Plinth to be provided with 75mm PCC layer on top.	CUM	1188.83		
273	3003657	Minor repairing of existing Plinth of any size for placing the transformer. Material will be supplied by the Contractor.	EA	12		
274	3005327	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand)	CUM	2844.04		
275	3005328	15mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 fine sand)	SQM	5410.52		
276	3003711	Repairing and strengthening of existing fencing structure.	EA	618		

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277	3005325	Supply and fixing of wire mesh fencing 2.5 mtr height with gate frame of 3 mtr x 2.5 mtr with complete material including painting eg angle,chain link,wire mesh and civil material etc complete as per specification & drawing of BSES.Angle iron size 50x50x6 mm & MS strip 50 x 3 mm,Wire mesh 1"x3" of 8 SWG wire to be used for wire-mesh with providing support at 1.25m distance.	SQM	7437.38		
278	3007220	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring . AL 6 sqmm sockets	EA	1		
279	3007221	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 10 sqmm sockets	EA	105		
280	3007222	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 25 sqmm sockets	EA	439		
281	3007223	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 50 sqmm sockets	EA	1740		
282	3007224	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 95 sqmm sockets	EA	219		
283	3003691	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 150 sqmm sockets	EA	1037		
284	3003692	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 300sqmm sockets	EA	847		

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285	3003693	Supply and making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring AL 630 sqmm sockets	EA	461		
286	3007225	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 6 sqmm sockets (Sockets will be supplied by BSES)	EA	1		
287	3007226	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 10 sqmm sockets .(Sockets will be supplied by BSES)	EA	12904		
288	3007227	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 25 sqmm sockets .(Sockets will be supplied by BSES)	EA	12797		
289	3007228	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 50 sqmm sockets .(Sockets will be supplied by BSES)	EA	4156		
290	3007229	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 95 sqmm sockets .(Sockets will be supplied by BSES)	EA	14980		
291	3003694	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 150 sqmm sockets (Sockets will be supplied by BSES).	EA	4760		

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292	3003695	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 300 sqmm sockets (Sockets will be supplied by BSES)	EA	2833		
293	3003696	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 630 sqmm sockets (Sockets will be supplied by BSES)	EA	2130		
294	3007384	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 2x10 / 2x25 sq.mm.	EA	1		
295	3007385	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 4x25 sq.mm.	EA	1		
296	3007386	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 4x50 sq.mm.	EA	1		
297	3007387	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 3.5x 95 sqmm	EA	20		
298	3005315	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 3.5x 150 sqmm	EA	1		
299	3005316	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 3.5x 300 sqmm	EA	1		
300	3005317	Supply and fixing of double compression cable glands suitable for following L.T. Cables size : 630 sqmm	EA	1		
301	3007388	Fixing of double compression cable glands suitable for following L.T. Cables size : 2x10 / 2x25 sq.mm.Gland provided by B.S.E.S.	EA	1		
302	3007389	Fixing of double compression cable glands suitable for following L.T. Cables size : 4x25 sq.mm.Gland provided by B.S.E.S.	EA	1		
303	3007390	Fixing of double compression cable glands suitable for following L.T. Cables size : 4x50 sq.mm.Gland provided by B.S.E.S.	EA	1		
304	3007391	Fixing of double compression cable glands suitable for following L.T. Cables size : 3.5x95sq.mm.Gland provided by B.S.E.S.	EA	20		

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305	3007392	Fixing of double compression cable glands suitable for following L.T. Cables size : 3.5x150sq.mm.Gland provided by B.S.E.S.	EA	1		
306	3007393	Fixing of double compression cable glands suitable for following L.T. Cables size : 3.5x300sq.mm.Gland provided by B.S.E.S.	EA	1		
307	3005321	Providing Aluminium Bus Bars as per site condition. - 400 Amp.	M	1		
308	3005322	Providing Aluminium Bus Bars as per site condition. - 800 Amp.	M	1		
309	3005323	Providing Aluminium Bus Bars for as per site condition. - 1250 Amp.	M	1		
310	3005324	Providing Aluminium Bus Bars for as per site condition. - 2000 Amp.	M	1		
311	3004901	Supply & Installation of fire buckets filled with sand, including fabrication of frame/stand of suitable size, canopy, grouting on surfce or wall, painting of frame including necessary hardware and consumables. 1 bucket stand	SET	1		
312	3004902	Supply & Installation of fire buckets filled with sand, including fabrication of frame/stand of suitable size, canopy, grouting on surfce or wall, painting of frame including necessary hardware and consumables. 2 bucket stand	SET	1		
313	3004903	Supply & Installation of fire buckets filled with sand, including fabrication of frame/stand of suitable size, canopy, grouting on surfce or wall, painting of frame including necessary hardware and consumables. 3 bucket stand	SET	1		
314	3004904	Supply & Installation of fire buckets filled with sand, including fabrication of frame/stand of suitable size, canopy, grouting on surfce or wall, painting of frame including necessary hardware and consumables. 4 bucket stand	SET	1		
315	3007045	Removal & refixing of gland plate after drilling of required nos. of holes for fixing cable gland as per site conditions and instructions of site engineer (for 10-12 holes in one gland plate)	EA	1		
316	3006641	RMU installation 1-Function.	EA	9		
317	3006640	RMU installation 3- Function	EA	211		
318	3006690	RMU installation 4- Function.	EA	70		

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319	3006643	Testing and commissioning comprising of Hi-pot test, primary injection, IR & mV Drop test, 1- Function RMU	EA	5		
320	3006642	Testing and commissioning comprising of Hi-pot test, primary injection, IR & mV Drop test for 3-Function RMU .	EA	200		
321	3006691	Testing and commissioning comprising of Hi-pot test, primary injection, IR & mV Drop test for 4-Function RMU .	EA	75		
322	3012348	LT Straight though Jointing	EA	709		
323	3012349	LT Termination	EA	2317		
324	3003706	Making Cable End termination. Note: End Termination kit will be provided by BSES as free supply.	EA	309		
325	3003674	Making Straight through joint. Note: St.Th.joint kit will be provided by BSES as free supply.	EA	187		
326	3006645	Casting of civil foundation for each 1-way RMU . It includes cement, sand, ballast (rodi)and labour.	EA	4		
327	3006644	Casting of civil foundation for each 3 Way-RMU . It includes cement, sand, ballast (rodi)and labour.	EA	167		
328	3006702	Casting of civil foundation for each 4-way RMU . It includes cement, sand, ballast (rodi)and labour.	EA	48		
329	3008660	Extra civil work for step-making (required for smooth operation/maintenance of RMU's)if the RMU is to be installed more than 300mm height from Ground Level.	EA	165		
330	3006700	Supply & Erection of MS Frame for 1-Way RMUs .	EA	6		
331	3006701	Supply & Erection of MS Frame for 3-Way RMUs .	EA	144		
332	3006703	Supply & Erection of MS Frame for 4-Way RMUs .	EA	43		
333	3004921	Providing ,Fabrication and fixing of Al. flat strip of required size suitable for any size of cable to connect in service / feeder pillars including cost of Al. strips , nut and bolts of required sizes.	M	4		
334	3003308	Painting of nomenclature of size(s) as reqd. on FP/Service Pillar / LT Panel / HT Panel and LT ACBs etc. including supply of paint.rates are per alphabat	CHR	147497		
335	3003310	Plinthng and erection of Service Pillars / Feeder Pillars as per BSES design including supply of bricks, cement, badarpur, jamuna sand etc. Feeder Pillar	EA	202		

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336	3003311	Plinthing and erection of service pillars / Feeder Pillars as per BSES design including supply of bricks, cement, badarpur, jamuna sand etc. Service Pillar	EA	1		
337	3003315	Construction & Raising the plinth of F/pillars A/B type approx 2' above the ground/Road level & erection of F/P thereon with proper bricks ,cement, badarpur ,jamuna sand, digging of the trench as required, removal of malba of the damaged old foundation.	EA	162		
338	3003316	Construction & Raising the plinth of service pillars approx 2' above the ground/Road level & erection of service pillars . thereon with proper bricks ,cement, badarpur ,jamuna sand, digging of the trench as required, removal of malba of the damaged old foundation.	EA	1		
339	3003317	Erection of following accessories of F/pillar, Service pillar including disconnection and connection with crimped sockets etc as required. Bus bar main Al. for phase/neutral per bus bar.	EA	1		
340	3003318	Erection of following accessories of F/pillar, Service pillar including disconnection and connection with crimped sockets etc as required. "L" type of outgoing feeder.including cost of material.	EA	1		
341	3003319	Erection of following accessories of F/pillar, Service pillar with material as required. Taping of busbar with insulation tape including cost of tape per bus bar.	EA	15		
342	3003320	Erection of following accessories of F/pillar, Service pillar with material including disconnection and connection with crimped sockets etc as required. Fuse Base contact 400 A rating including cost of Fuse base contact	EA	1		
343	3003321	Erection of following accessories of F/pillar, Service pillar with material including disconnection and connection with crimped sockets etc as required. Kit-kat 60 A fuse on service/feeder pillar including cost of kit kat	EA	42		

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344	3003322	Erection of following accessories on F/pillar, Service pillar with material as required. Supplying and welding new Hinge 100 mm on Service or Feeder pillar.	EA	15		
345	3003323	Erection of following accessories on F/P, S/P & /S/Stn Door with material including disconnection and connection with crimped sockets etc as required. Providing and welding of "Kunda" including welding of lock if required on service/feeder pillar door.(Kunda to be fabricated of M.S. flat 40 mm x 3 mm).	EA	1		
346	3003541	Erection of steel tubular poles i/c refilling,ramming & transportation of the poles from stacking site within one Km. Distance,) excluding Digging,Concreting,muffing and Brick Padding. 6.6M SOH	EA	1		
347	3003455	Erection of steel tubular pole i/c refilling,refilling & transportation of the poles from stacking site within one Km. Distance,) excluding Digging,Concreting,muffing and Brick Padding 9.1M SOH	EA	6		
348	3003457	Erection of steel tubular poles i/c refilling & transportation of the poles from stacking site within one Km. Distance,) excluding Digging,Concreting,muffing and Brick Padding 10.5M SOH/DOH	EA	1		
349	3003459	Erection of steel tubular poles i/c refilling, muffing & transportation of the poles from stacking site within one Km. Distance,) excluding Digging,Concreting,muffing and Brick Padding 11.86M SOH/DOH	EA	1		
350	3003481	Internal wiring of pole with 4 or 2.5mm 2 PVC Wire .9.1M SOH	EA	1		
351	3004924	Internal wiring of pole with 4 or 2.5mm2 PVC Wire. 6.6M SOH	EA	1		
352	3003486	Internal wiring of pole with 4 or 2.5mm2 PVC Wire. 10.5M SOH/DOH	EA	1		
353	3003484	Internal wiring of pole with 4 or 2.5mm2 PVC Wire. 11.86M SOH/DOH	EA	1		
354	3003487	Installation of fuse box	EA	1		
355	3003491	Installation of St.lighting fittings i/c connections i) HPSV 250w/400w	EA	1		
356	3003546	Installation of St.lighting fittings i/c connections i) HPSV 150w	EA	18		

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357	3003545	Installation of St.lighting fittings i/c connections ii) HPSV 70 W	EA	45		
358	3003489	Installation of St.lighting fittings i/c connections iii) F.T. TUBE 1X40 W	EA	1		
359	3007395	Installation of St.lighting fittings i/c connections iii) F.T. TUBE 2X40 W	EA	1		
360	3007396	Tuck welding of HPSV/HPMV fitting on street lighting poles	EA	20		
361	3007397	Tuck welding of MS Fuse boxes on street lighting poles	EA	1		
362	3004925	Muffing and plinthing of pole as per design of cement mortor 1:3:6(All material to be provided by contractor)	EA	83		
363	3002767	Zebra painting on any type of pole including supply of paints upto 1.03 M height from GL	EA	1444		
364	3003550	Painting of St. Ltg. Steel Tubular poles with 1 coat of red oxide primer and 2 coats of aluminum paint including numbering as per BSES design (I/c supply of paint) 6.6 M SOH	EA	1		
365	3003494	Painting of St. Ltg. Steel Tubular poles with 1 coat of red oxide primer and 2 coats of aluminum paint including numbering as per BSES design (I/c supply of paint) 9.1M SOH/9.0 M Steel Tubular Pole	EA	1		
366	3003495	Painting of St. Ltg. Steel Tubular poles with 1 coat of red oxide primer and 2 coats of aluminum paint including numbering as per BSES design (I/c supply of paint) 10.5 M SOH	EA	1		
367	3003496	Painting of St. Ltg. Steel Tubular poles with 1 coat of red oxide primer and 2 coats of aluminum paint including numbering as per BSES design (I/c supply of paint) 10.5 M DOH	EA	1		
368	3003547	Painting of St. Ltg. Steel Tubular poles with 1 coat of red oxide primer and 2 coats of aluminum paint including numbering as per BSES design (I/c supply of paint) 11.86 M SOH	EA	1		
369	3003548	Painting of St. Ltg. Steel Tubular poles with 1 coat of red oxide primer and 2 coats of aluminum paint including numbering as per BSES design (I/c supply of paint) 11.86 M DOH	EA	29		
370	3007922	Concreting with 1:4:8 mix complete in all respect.	CUM	1230.5		
371	3007921	Concreting with 1:2:4 mix complete in all respect.	CUM	2224.7		

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372	3005512	Concreting with 1:3:6 mix complete in all respect.	CUM	1004.39		
373	3007362	Brick padding including material per pole	EA	271		
374	3002951	Loading/unloading and transportation of 110 lbs 42' MS rail from store to site or from site to site. Beyond one km. to 5 km.	EA	1		
375	3002952	Loading/unloading and transportation of 110 lbs 42' MS rail from store to site or from site to site. Beyond 5 kms.	EA	1		
376	3002953	Loading/Unloading/Transportation of 36' PCC Poles from store to site or site to site. Beyond one km. to 5 Kms.	EA	37		
377	3002954	Loading/Unloading/Transportation of 36' PCC Poles from one site to another site Beyond 5 Km distance.	EA	340		
378	3002955	Loading/Unloading/Transportation of 27', 28' and 30' PCC Poles from store to site or site to site. Beyond one km.to 5 Kms	EA	292		
379	3002956	Loading/Unloading/Transportation of 27', 28' and 30' PCC Poles from one site to another Beyond 5 Kms	EA	283		
380	3007306	Loading/Unloading/Transportation of Steel Tubeler 9 mtr long Poles from store to site or site to site. Beyond one km.to 5 Kms	EA	40		
381	3007307	Loading/Unloading/Transportation of Steel Tubeler 9 mtr long Poles from one site to another Beyond 5 Kms	EA	4		
382	3007308	Loading/Unloading/Transportation of steel tubular poles . from one site to another site up Beyond one Km.to 5 Kms 6.6M SOH	EA	1		
383	3007309	Loading/Unloading/Transportation of steel tubular polesfrom one site to another site Beyond one Km.to 5 Kms 9.1M SOH	EA	1		
384	3007410	Loading/Unloading/Transportation of steel tubular poles from one site to another site Beyond one Km.to 5 Kms10.5M SOH/DOH.	EA	1		
385	3007411	Loading/Unloading/Transportation of steel tubular poles from one site to another site Beyond one Km.to 5 Kms 11.86M SOH/DOH	EA	1		
386	3007412	Loading/Unloading/Transportation of steel tubular poles . from one site to another site Beyond a distance of 5 Kms 6.6M SOH	EA	1		

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387	3007413	Loading/Unloading/Transportation of steel tubular poles from one site to another site Beyond a distance of 5 Kms 9.1M SOH	EA	1		
388	3007414	Loading/Unloading/Transportation of steel tubular poles from one site to another site Beyond a distance of 5 Kms 10.5M SOH/DOH	EA	1		
389	3007415	Loading/Unloading/Transportation of steel tubular poles from one site to another site Beyond a distance of 5 Kms 11.86M SOH/DOH	EA	1		
390	3004899	Transportation of Electrical equipments or any any kind of materials from store to site or from site to site including loading and unloading at both ends by manually - > By Full body truck load (9T capacity) . Note:- Above item will be selected ensuring optimum utilization of the approved rates.	TRP	53		
391	3004900	Transportation of Electrical equipments or any any kind of materials from store to site or from site to site including loading and unloading at both ends by manually - > By Half body Truck . Note:- Above item will be selected ensuring optimum utilization of the approved rates.	TRP	4427		
392	3007416	Transportation of Electrical equipments or any any kind of materials from store to site or from site to site including loading and unloading at both ends by using T & P such as Tripod/cranes -> By Full body truck load (9T capacity) . Note:- Above item will be selected ensuring optimum utilization of the approved rates.	TRP	3664		
393	3007417	Transportation of Electrical equipments or any any kind of materials from store to site or from site to site including loading and unloading at both ends by using T & P such as Tripod/cranes -> By Half body Truck . Note:- Above item will be selected ensuring optimum utilization of the approved rates.	TRP	858		
394	3003288	Transportation of following sizes of cables pieces from stores to site or from site to site (Transportation cost should not exceed the cost of the transportation of the Trip). Above 150 sq. mm.	M	1		

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395	3003289	Transportation of following sizes of cables pieces from stores to site or from site to site (Transportation cost should not exceed the cost of the transportation of the Trip). Above 95 sq. mm. up to 150 sq. mm.	M	1		
396	3003290	Transportation of following sizes of cables pieces from stores to site or from site to site (Transportation cost should not exceed the cost of the transportation of the Trip). Up to 95 sq. mm	M	15		
397	3004920	Transportation of material by trailer including loading and un-loading	TRP	180		
398	3003752	Transportation of material by hand-cart	TRP	27710		
399	3005542	Transportation of empty cable drum from site to designated store anywhere in Delhi. For Steel Drum	EA	57		
400	3005543	Transportation of empty cable drum from site to designated store anywhere in Delhi. For minimum 11 nos Wooden Drum (In case under execution No. of empty drum are less than 11 nos. the same can be transported against one transportation charges)	TRP	557		
401	3006646	Transportation of RMU's and other materials from Main Store to Distt.Store or from Distt.Store to site, i/c.loading & unloading at both ends safely (a) One transport will be paid per site for New RMU along with other materials. (b) In case of transshipment of RMU from main store to district store and then from district store to site, two transport will be allowed.	TRP	368		
402	3004933	Supply of Hume Pipes. 250mm dia	M	1		
403	3004934	Supply of Hume Pipes. 200mm dia	M	1		
404	3004935	Supply of Hume Pipes. 150mm dia	M	1		
405	3004936	Supply of Semi Hume Pipes. 250mm dia.	M	1		
406	3004937	Supply of Semi Hume Pipes. 200mm dia.	M	1		
407	3004938	Supply of Semi Hume Pipes. 150mm dia.	M	1		
408	3005517	Supply of Route/Joint marker	EA	1		
409	3005581	Supply of HDPE pipes as per IS 4984,PN 4 class PE 63 - 110mm dia	M	58906		
410	3005532	Supply of HDPE pipes as per IS 4984,PN 4 class PE 63 - 140mm dia.	M	99218		
411	3005533	Supply of HDPE pipes as per IS 4984,PN 4 class PE 63 - 160mm dia.	M	39210		

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412	3005534	Supply of HDPE pipes as per IS 4984,PN 4 class PE 63 - 200mm dia	M	12003.5		
413	3004923	Supply of Bolts/ nuts , etc. including erection	KG	5821		
414	3003326	Supply of MS Steel (Angle, Channel, Flat)	KG	2940		
415	3005494	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by HDD Machine Moling.Drilling and laying. 110/140mm dia.	M	33457.9		
416	3005495	Crossing of roads by trench-less technology by laying of HDPE pipee excluding supply of pipe. Laying by HDD Machine Moling. Drilling and laying. 160mm dia.	M	55815		
417	3005496	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by HDD Machine Moling. Drilling and laying. 200mm dia.	M	6956		
418	3007917	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by Tractor Moling.Drilling and laying. 110/140mm dia.	M	1874.5		
419	3007918	Crossing of roads by trench-less technology by laying of HDPE pipee excluding supply of pipe. Laying by Tractor Moling. Drilling and laying. 160mm dia.	M	416		
420	3007919	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by Tractor Moling. Drilling and laying. 200mm dia.	M	390		
421	3005499	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by Pneumatic Jack Hammer Road Cutting. Laying . 110/140mm dia.	M	101126		
422	3005530	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by Pneumatic Jack Hammer Road Cutting.laying . 160mm dia.	M	32886		
423	3005531	Crossing of roads by trench-less technology by laying of HDPE pipe excluding supply of pipe .Laying by Pneumatic Jack Hammer Road Cutting.laying . 200mm dia.	M	26697		
424	3007049	Installation of slotted angle	M	1		

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425	3007060	Installation of DT/TP MCB upto 45A in the DB	EA	1		
426	3007061	Installation of DT/TP Isolator upto 45A on wall/ Slotted angle from Meters outgoing	EA	1		
427	3006367	Stringing and sagging of the following LT AB cables, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc. - 3 cores of 95 sqmm, 1 core of 50 sqmm Al conductor with XLPE insulation and messenger wire (with or without one 16 sq.mm. additional core for lighting)	M	12694		
428	3006368	Stringing and sagging of the following LT AB cables, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc. - 3 cores of 50 sqmm, 1 core of 25 sqmm Al conductor with XLPE insulation and messenger wire (with or without one 16 sq.mm. additional core for lighting)	M	100		
429	3006369	Stringing and sagging of the following LT AB cables, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc. - 3 cores of 150/120sqmm, 1 core of 70 sqmm Al conductor with XLPE insulation and messenger wire (with or without one 16 sq.mm. additional core for lighting)	M	63008.5		
430	3006390	Installation of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 16-95 sqmm, Tap cables size : 4-35 sqmm	EA	1		
431	3006391	Installation of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 50-150 sqmm, Tap cables size : 6-35 sqmm	EA	2002		
432	3006392	Installation of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 25-95 sqmm, Tap cables size : 25-95 sqmm	EA	1		
433	3006393	Installation of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 50-150 sqmm, Tap cables size : 50-150 sqmm	EA	22486		

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434	3006394	Installation of Piercing connectors on LT AB cables at pole top height to make proper tap-off connections - Main cables size : 16-95 sqmm, Tap cables size : 1.5-10 sqmm	EA	51		
435	3006395	Straight through jointing of U/G cable to AB Cables. The job involves preparing U/G cables for termination, fitting heat shrinkable breakouts, non tension connectors, heat shrinkable sleeves to make proper joint with AB Cable. Joint to be made at pole near to pole top. - U/G cables : 35-150 sqmm, ABC cables : 25-120 sqmm	EA	1		
436	3006396	Straight through jointing of U/G cable to AB Cables. The job involves preparing U/G cables for termination, fitting heat shrinkable breakouts, non tension connectors, heat shrinkable sleeves to make proper joint with AB Cable. Joint to be made at pole near to pole top. - U/G cables : 150-300 sqmm, ABC cables : 150-185 sqmm	EA	1		
437	3006397	Mid span jointing of individual cores LT ABC cables using waterproof pre-insulated hexagonal compression connectors - ABC cables : 70 to 150 sqmm	EA	1		
438	3006398	Mid span jointing of individual cores LT ABC cables using waterproof pre-insulated hexagonal compression connectors - ABC cables : 16 to 50 sqmm	EA	3		
439	3006399	Mid span jointing of following sizes bare messangers using full-tension DIN-compression connectors - Bare Messenger : 35 to 120 sqmm	EA	27		
440	3006400	Fixing of eye hook or GI clamps or dead end clamps or suspension clamps with turn buckle for following sizes of messenger wire - Messenger size : 35-120 sqmm	EA	5000		
441	3006401	Fixing of heat shrinkable end cap on individual coares of 16 to 150 sqmm AB cables.	M	1		

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442	3006404	Installation of following after fixing on wall/slotted angle frame etc as required including connection through reinforced flexible conduit. The job shall be as per approval of Engineer In Charge and include supply of consumable like PVC bobbin, black lap, socket etc shall be supplied by the contractor and Angle iron split, nuts & bolts shall be supplied by BSES on free issue basis. - Single Phase DB	EA	2839		
443	3006403	Installation of following after fixing on wall/slotted angle frame etc as required including connection through reinforced flexible conduit. The job shall be as per approval of Engineer In Charge and include supply of consumable like PVC bobbin, black lap, socket etc shall be supplied by the contractor and Angle iron split, nuts & bolts shall be supplied by BSES on free issue basis. - Three Phase DB	EA	5150		
444	3007032	End termination of cable, in pole/wall/structure mounted distribution boxes/meter boxes, including fixing of cable glands, crimping of lugs as required as per site requirement and instructions of site engineer for following sizes of cables. : Upto 2Core x 25 Sqmm	EA	353		
445	3007033	End termination of cable, in pole/wall/structure mounted distribution boxes/meter boxes, including fixing of cable glands, crimping of lugs as required as per site requirement and instructions of site engineer for following sizes of cables. : From 2/4Core x 25 Sqmm to 3.5 Core x 70	EA	209		
446	3007034	Making Connections/Joints between conductors, wires etc. for proper earthing connection with use of clamps/connectors/lugs/wires. Clamps, connectors, lugs shall be free issue items. Connection between 6/8 swg wire and bare conductor of 35-70 Sq.mm. Or equivalent	EA	142		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
447	3007035	Making Connections/Joints between conductors, wires etc. for proper earthing connection with use of clamps/connectors/lugs/wires. Clamps, connectors, lugs shall be free issue items. Connection between bare conductor of 35 to 70 Sq.mm. and another bare conductor of 35 to 70 Sq.mm.	EA	66		
448	3007036	Making Connections/Joints between conductors, wires etc. for proper earthing connection with use of clamps/connectors/lugs/wires. Clamps, connectors, lugs shall be free issue items. Connection between Earth conductor 10 to 35sq.mm. and panels/ equipments	EA	2045		
449	3007418	Fixing of following sizes of cable on wall/structure/poles by providing proper support with cleats, clamps, ties. Cleats, clamps, ties shall be free issue items. - Upto 3.5Core x 50 Sqmm	M	1305		
450	3007065	Fixing of following sizes of cable on wall/structure/poles by providing proper support with cleats, clamps, ties. Cleats, clamps, ties shall be free issue items. - above 3.5Core x 50 to 3.5Core x 150 Sqmm	M	470		
451	3007419	Fixing of following sizes of cable on wall/structure/poles by providing proper support with cleats, clamps, ties. Cleats, clamps, ties shall be free issue items. - above 3.5Core x 150 to 3.5Core x 300 Sqmm	M	338		
452	3007420	Fixing of following sizes of G.I.pipes for cable entry. The work shall include excavation/back filling of soil, breaking/repairing of wall/plinth, grouting, fixing of clamps etc. - Upto 50 mm dia.	M	950		
453	3007421	Fixing of following sizes of G.I.pipes for cable entry. The work shall include excavation/back filling of soil, breaking/repairing of wall/plinth, grouting, fixing of clamps etc. - 50 to 100 mm dia.	M	1		
454	3007066	Laying of cables of following sizes of cable through G.I. Conduits of various sizes - Upto 25 mm outer dia.	M	1		
455	3007067	Laying of cables of following sizes of cable through G.I. Conduits of various sizes - above 25 to 50 mm outer dia.	M	20		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
456	3006405	Laying of Cable of following size with 3 core Al. Conductor (XLPE Insulated) and 1 Core bare Al. messenger Cum neutral - HT AB Cable 3Cx150+1Cx150 sqmm	M	7409		
457	3006406	Laying of Cable of following size with 1 core Al. Conductor (XLPE Insulated) and 1 Core bare Al. messenger Cum neutral - HT AB Cable 1c x95+1cx34 sq. mm	M	114134		
458	3006407	Termination of - HT AB Cable 1Cx95 sqmm	EA	6520		
459	3006408	Termination of - HT AB Cable 1Cx150 sqmm	EA	1010		
460	3006409	Termination of - 25 sq. mm. earthing cable	EA	7996		
461	3006410	Fixing of suspension Clamps for 11KV ABC for below mentioned sizes - HT AB Cable 3Cx95+1Cx95sqmm	EA	3290		
462	3006411	Fixing of suspension Clamps for 11KV ABC for below mentioned sizes - HT AB Cable 3Cx150+1Cx150sqmm	EA	460		
463	3006413	Fixing of dead end clamps for 11KV ACB for below mentioned sizes - HT AB Cable 3Cx95+1Cx95sqmm	EA	4059		
464	3006412	Fixing of dead end clamps for 11KV ACB for below mentioned sizes - HT AB Cable 3Cx150+1Cx150sqmm	EA	513		
465	3006414	PG clamp for 120/150 sqmm messenger wire	EA	1		
466	3006415	HT Al. Bus Bar 50x10x500 mm mounted an 11KV Solid core insulator for holding T off connectors	EA	1		
467	3006417	11 kv Heat Shrinkable sleeving for jumpering	M	1		
468	3006418	11 kv Heat Shrinkable sleeving on Bus bar	M	1		
469	3007037	Clamps & connector for jumpering of transformer/LAS/GO switches/D.O sets/P.G/Tee clamps etc. including Nuts & Bolts.	EA	1833		
470	3009083	Charging of complete system including transformer, HT ABC etc.charges are per transformer	EA	1958		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
471	3012351	Barricading Item for Electrical & Road restoration work Providing and Erecting Continuous Steel Barricading (MS sheet) of size 1.80 mtrs x 1.20 mtrs at site as per drawing / direction of Engineer-in-Charge which includes cost of material, plant, consumable, transport & labour for shifting, placing, painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamp, reflective signs, marking, flags, caution tape etc and regular maintenance complete. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. The barricading shall not be removed without prior approval of Engineer-in-Charge. "(Note: - One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	M	72084.9		
472	New Service item	Mounting, testing and commissioning of accessories on the existing structure of P/M S/Stn or I/D s/stns. by means of suitable nut, bolts & clamps etc. including mounting on necessary frames electrically interconnecting with each other after Crimping the sockets for a LT ACB 3200 Amps. (Unit: NUM)	NUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
473	New Service item	Laying one HT or LT cable (XLPE or CCD / Cable in Co-extruded Duct with or without embedded OFC) without HDPE pipe by trench-less technology. Laying by HDD Machine Moling. Drilling. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (eg: 3X150, 3X300, 3X400, 4CX50, 4Cx150, 4CX300 sq mm, 4CX400 Sqmm) (Unit: M)	M	1		
474	New Service item	Laying one HT or LT cable (XLPE or CCD / Cable in Co-extruded Duct with or without embedded OFC) without HDPE pipe by trench-less technology. Laying by Tractor, Moling, Drilling. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (eg: 3X150, 3X300, 3X400, 4CX50, 4Cx150, 4CX300 sq mm, 4CX400 Sqmm) (Unit: M)	M	1		
475	New Service item	Use pneumatic or electro-mechanical jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc. of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less(using Hand breaker) (Unit: CUM)	CUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
476	New Service item	Use pneumatic jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc.of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less(using Tractor breaker) (Unit: CUM)	CUM	1		
477	New Service item	Use pneumatic jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc.of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less(using JCB breaker) (Unit: CUM)	CUM	1		
478	New Service item	Protection testing of distribution transformer includes insulation resistance (IR) test, turns ratio test, winding resistance measurement, magnetic current test, BDV measurement (for oil type); functional tests such as tripping of HT breaker on WTI, OTI, Oil level (MOG), Gas pressure or Buchholz relay exceeding predefined values and on opening of transformer door whichever is applicable; laying and connection of control and auxiliary power cables in between transformer and 11KV switchgear / RMU; providing and transportation of testing equipment at site.(upto 1 MVA DT Oil /Dry Type both including Package Substation)	EA	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
479	New Service item	Protection testing of distribution transformer includes insulation resistance (IR) test, turns ratio test, winding resistance measurement, magnetic current test, BDV measurement (for oil type); functional tests such as tripping of HT breaker on WTI, OTI, Oil level (MOG), Gas pressure or Buchholz relay exceeding predefined values and on opening of transformer door whichever is applicable; laying and connection of control and auxiliary power cables in between transformer and 11KV switchgear / RMU; providing and transportation of testing equipment at site.(for 1.6MVA/ 2MVA DT Oil /Dry Type both including Package Substation)	EA	1		
480	New Service item	Installation, testing and commissioning of 630kVA 11/0.4 Package Substation including all internal components such as RMU, transformer, ACB, MCCB, APFC, etc; grouting of PSS; setting of all relays, FPI, etc as per BSES standard design;	NUM	1		
481	New Service item	Installation, testing and commissioning of 1000kVA 11/0.4 Package Substation including all internal components such as RMU, transformer, ACB, MCCB, APFC, etc; grouting of PSS; setting of all relays, FPI, etc as per BSES standard design;	NUM	1		
482	New Service item	Installation, testing and commissioning of 2x1000kVA 11/0.4 Package Substation (G+1) including all internal components such as RMU, transformers, ACB, MCCB, etc; grouting of PSS; setting of all relays, FPI, etc as per BSES standard design;	NUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
483	New Service item	Installation, testing and commissioning of 2000kVA 11/0.4 Package Substation (G+1) including all internal components such as RMU, transformers, ACB, MCCB, etc; grouting of PSS; setting of all relays, FPI, etc as per BSES standard design;	NUM	1		
484	New Service item	Fixing of MS mesh (Wire mesh 1"x3" of 8 SWG) wire to be used for wire-mesh fencing 2.5 mtr height with Gate Frame of 3 mtr x 2.5 mtr with complete material including setting, welding, fabrication, red-oxide priming painting etc complete as per site requirement of BSES. MS Channel & MS Angle to used from BSES store. Fixing of single MS Channel at intervals of max 1.2m and box MS Channel at corners to be grouted in ground to support fencing, including the supply of accessories such as Kunda, Hinge, etc (excluding Civil Works)	SQM	1		
485	New Service item	Dismantling and demolishing brick work / plinth for all types of structure including stacking of serviceable material or salvageable scrap, including labour, equipment, safety precautions, all complete as per specification, drawing and instruction of engineer. (Unit: CUM)	CUM	1		
486	New Service item	Laying along with road/crossing the road with two HDPE pipe along the same route by trench-less technology excluding supply of pipe. Laying by HDD Machine Moling.Drilling and laying. 110/140mm dia. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		

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487	New Service item	Laying along with road/crossing the road with two HDPE pipe along the same route by trench-less technology excluding supply of pipe. Laying by HDD Machine Moling.Drilling and laying. 160mm dia. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		
488	New Service item	Laying along with road/crossing the road with two HDPE pipe along the same route by trench-less technology excluding supply of pipe. Laying by HDD Machine Moling.Drilling and laying. 200mm dia. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		
489	New Service item	Laying along with road/crossing the road with two HDPE pipe along the same route by trench-less technology excluding supply of pipe. Laying by Tractor/manual Moling.Drilling and laying. 110/140mm dia. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		
490	New Service item	Laying along with road/crossing the road with two HDPE pipe along the same route by trench-less technology excluding supply of pipe. Laying by Tractor/manual Moling. Drilling and laying.160mm dia. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
491	New Service item	Laying along with road/crossing the road with two HDPE pipe along the same route by trench-less technology excluding supply of pipe. Laying by Tractor/manual Moling. Drilling and laying. 200mm dia. It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		
492	New Service item	Laying two HT or LT cables (XLPE or CCD / Cable in Co-extruded Duct with or without embedded OFC) without HDPE pipe along the same route by trench-less technology. Laying by HDD Machine Moling. Drilling. (Eg: 3X150, 3X300, 3X400, 4CX50, 4Cx150, 4CX300,4C X 400 Sqmm). It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		
493	New Service item	Laying two HT or LT cables (XLPE or CCD / Cable in Co-extruded Duct with or without embedded OFC) without HDPE pipe along the same route by trench-less technology. Laying by Tractor, Moling, Drilling. (Eg: 3X150, 3X300, 3X400, 4CX50, 4Cx150, 4CX300,4C X 400 Sqmm). It also include Preparation of map marking route & depth of cable (section wise) and coordinates of joints which can be updated in GIS. (Unit: M Route length)	M Route Length	1		
494	New Service item	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 1600 KVA Transformer.	NUM	1		

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495	New Service item	Dismantling of the following from kiosk/ indoor type. S/stn. Including their safe removal and stacking at tent site including loading and unloading . (the work also includes the removal of all the electric/earth connections). 2000 KVA Transformer.	NUM	1		
496	New Service item	Installation , testing and commissioning of 11/0.433 KV distribution Transformer of following sizes on existing plinth including grouting of frames required on HT & LT side for cables as per BSES Design & practice. 2000 KVA Transformer any type	NUM	1		
497	New Service item	Installation , testing and commissioning of 11/0.433 KV distribution Transformer of following sizes on existing plinth including grouting of frames required on HT & LT side for cables as per BSES Design & practice. 1600 KVA Transformer any type	NUM	1		
498	New Service item	Protection testing of distribution transformer 1000 KVA /1600 KVA / 2000 KVA includes insulation resistance (IR) test, turns ratio test, winding resistance measurement, magnetic current test, BDV measurement (for oil type); functional tests such as tripping of HT breaker on WTI, OTI, Oil level (MOG), Gas pressure or Buchholz relay exceeding predefined values and on opening of transformer door whichever is applicable; laying and connection of control and auxiliary power cables in between transformer and 11KV switchgear / RMU; providing and transportation of testing equipment at site. (Unit: NUM)	NUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
499	New Service item	Laying additional or new single core cable or replacing existing cables with proper clamping. - 1000 sqmm	M	1		
500	New Service item	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 630 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 1600 KVA Transformer	EA	1		
501	New Service item	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 1000 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 1600 KVA Transformer	EA	1		
502	New Service item	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 630 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 2000 KVA Transformer	EA	1		
503	New Service item	Laying and connecting of 11KV cable of size 3x150 sq. mm. from HT switch gear to the transformer and LT single core cable of size 1000 sq. mm. from TR to LT board including fixing the same by means of proper wooden cleats etc. as required (The work includes crimping of sockets earthing & taping etc. as req). For 2000 KVA Transformer	EA	1		

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504	New Service item	Dragging of Old/New Distribution Transformers of 1000 to 2000 KVA ratng of oil/dry type as per standard practice for more than 60 mtrs (rates are per mtr)	M	1		
505	New Service item	Dragging of Old/New Distribution Transformres of 1000 to 2000 KVA ratng of oil/dry type as per standard practice from more than 10 mtr to 30 mtrs.	EA	1		
506	New Service item	Dragging of Old/New Distribution Transformres of 1000 to 2000 KVA ratng of oil/dry type as per standard practice from more than 30 mtr to 60 mtrs.	EA	1		
507	New Service item	Stringing and sagging of the following LT XLPE Armoured cables supported on messenger wire with fabricated clamps, with help of proper tool i.e. pullies, cable drum jacks, pulling & crimping tool etc.; Fabricated clamp to support LT cable with messenger wire in contractor's supply; - 4C150 or 4C300 sq mm	M	1		
508	New Service item	Installation of safety padlocks including welding-1 of S/S Door & Lock with base plate, welding-2 of S/S Door & Chain with base plate, transportation among substations, sites and store; sanding / smoothing the edges and weld with sand paper, apply red-oxide primer and spray silver paint	NUM	1		
509	New Service item	Installation of bird cap / transparent polycarbonate box per HVDS transformer	NUM	1		
510	New Service item	Installation bird spike guard on overhead insulators or insulation sleeve on bare overhead conductor (Unit: PER POLE)	PER POLE	1		
511	New Service item	Dismantling of MS mesh / FRP fencing including their safe removal and stacking at tent site nearby	SQM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
512	New Service item	Installation of FRP fencing including grouting of vertical post sections in pedestal and fixing it with fencing panels with nut bolting arrangement	SQM	1		
513	New Service item	Making Straight through joint with installing extra cover and pouring resin hardener for additional protection in water logged areas. Note: St.Th.joint kit will be provided by BSES as free supply.	NUM	1		
514	New Service item	Erection of FRP pole (6 Mtr) ,i/c refilling,ramming of the foundation and including removal of malba & transportation of pole from stacking site within 1 Km.distance excluding Digging,Concreting,& Brick Padding.	NUM	1		
515	New Service item	Installation, testing and commissioning of 11kV, Single Phase Breaker with control panel on pole along with supporting fittings	NUM	1		
516	New Service item	Installation of fire proteccion device on top of transformer through suitable mounting arrangement (steel structure) including its fabrication	NUM	1		
517	New Service item	Supply, Fabrication & Installation of MCCB rating of 400A and above with box, suitable clamping, and suitable Aluminium busbar with supporting arrangement.(BSES will provide MCCB)	EA	1		
518	New Service item	GPR survey and cable route tracing before cable laying activity with a map of underground utilities to be carried out with the latest technology to be arranged by the contractor to ensure that existing utilities are not damaged.(map includes lat. & longitude, with depth ,with route map)	M	1		
519	New Service item	Supply & Installation of reflective tape of size, strips of two-inch-wide retro-reflective tape with alternating colours.	M	1		

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520	New Service item	Application of insulating paint on iron / steel poles to prevent electric shock	PER POLE	1		
521	New Service item	Earth pit including connection with existing earthing as well as equipment. (Material required for earthing shall be provided by the Company)	EA	1		
522	New Service item	Supply and fixing of metallic tin shed (colour coated galvanized metro sheets) Canopy style excluding iron fabrication work	SQM	1		
523	New Service item	Installation of Danger board as per BYPL specification (Supply of material shall be in the scope of BSES)	EA	1		
524	New Service item	Supply and fixing of 16 Amp / 32 Amp double pole MCB	EA	1		
525	New Service item	Plinthing and erection of all type LT Panel board as per BSES design including supply of bricks, cement, badarpur, jamuna sand etc. LT Panel Board	EA	1		
526	New Service item	Supply of HDPE Pipe of dia 40 mm	M	1		
527	New Service item	Dragging of Old/New all type of HT Panel/RMU/FRTU/Metering Cubicle as per standard practice from more than 10 mtr to 30 mtrs.	EA	1		
528	New Service item	Dragging of Old/New all type of HT Panel/RMU/FRTU/ Metering Cubicle as per standard practice from more than 30 mtr to 60 mtrs.	EA	1		
529	New Service item	Dragging of Old/New all type of HT Panel/RMU/FRTU / Metering Cubicle as per standard practice for more than 60 mtrs (rates are per mtr)	M	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
530	New Service item	Labour charges for digging of the trench Using pneumatic or electro-mechanical jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc. (Unit: CUM) of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 1.1KV LT 4X150 ,4X300, 4X400 sq.mm Single circuit of size 400X875 mm.	CUM	1		
531	New Service item	Labour charges for digging of the trench Using pneumatic or electro-mechanical jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc. (Unit: CUM) of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 1.1KV LT 4X150 ,4X300, 4X400 sq.mm Double circuit as per IS.	CUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
532	New Service item	Labour charges for digging of the trench Using pneumatic or electro-mechanical jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc. (Unit: CUM) of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 1.1KV LT 4X150 ,4X300, 4X400 sq.mm Triple circuit as per IS.	CUM	1		
533	New Service item	Labour charges for digging of the trench Using pneumatic or electro-mechanical jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc. (Unit: CUM) of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 11 KV LT 3X150, 3X300 or 3X400 sq.mm Single Circuit as per IS.	CUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
534	New Service item	Labour charges for digging of the trench Using pneumatic or electro-mechanical jack hammer to drill / dig / break / chip tough surface such as concrete, rock, etc. (Unit: CUM) of the required size including the backfilling with the excavated earth ramming the same and disposing the surplus excavated material all complete. Payment shall be released as per actual depth excavated or as mentioned in drawing whichever is less. Digging of cable trench in Dense carpeted bituminous roads/CC Road/Asphaltic Road for 11 KV LT 3X150, 3X300 or 3X400 sq.mm Double Circuit of size as per IS.	CUM	1		
535	New Service item	Laying of RCC Plates (300mm) in 11 KV Straight Through Joints	NOS	1		
536	New Service item	Laying of RCC Plates (150mm) in 11 KV Straight Through Joints	NOS	1		
537	New Service item	Laying of CVR, ELECT BOX 320x300x235MM:RCC in 11 KV Straight Through Joints	NOS	1		
538	New Service item	Loading, Unloading, lifting, lowering, moving horizontally and placement of a heavy equipment / objects using crane (upto 10Ton), including supply of slings, wire ropes , hooks, U-bolts etc required for safe material handling. (Upto 5 hrs)	EA	1		
539	New Service item	Loading, Unloading, lifting, lowering, moving horizontally and placement of a heavy equipment / objects using crane (upto 10Ton), including supply of slings, wire ropes , hooks, U-bolts etc required for safe material handling. (beyond 5 hrs)	HR	1		

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540	New Service item	Installation, Testing, Commissioning of CT/PT Units on 2 Pole Structure	EA	1		
541	New Service item	Installation of DD Units / Insulated DD units in HVDS System	EA	1		
542	New Service item	Transportation of Mobile Transformer with Trolley	TRP	1		
543	New Service item	Disconnection or connection of LT cable of following sizes : - LT Cable 1c x 1000 sq.mm.	EA	1		
544	New Service item	Usage of Hydraulic Crane (upto 5 Hrs)	EA	1		
545	New Service item	Usage of Hydraulic Crane (Beyond 5 Hrs)	HR	1		
546	New Service item	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 1000 sqmm sockets (Sockets will be supplied by BSES)	NOS	1		
547	New Service item	Making connections at where ever required (feeder pillars/service pillars/ LT panel etc.) with following size of socket including crimping of socket and complete armouring: AL 400 sqmm sockets (Sockets will be supplied by BSES)	NOS	1		
548	New Service item	Installation new metering cubicle, including dismantling of old metering cubicle, including loading & unloading , with Transportation to & fro & any other work related to metring cubicle installation (except channel installation)	EA	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
549	New Service item	Installation , testing and commissioning of 11/0.433 KV distribution transformer of following sizes on existing structure including jumpering of HT side and connecting the leads on LT side: 50 KVA Tr. On 2-pole/single pole structure.	EA	1		
550	New Service item	Sand filling in cable trench	CUM	1		
551	New Service item	Removal of all angle channel ,MS Flat/ Bar Flat etc & stacking the material at Tent Site .	KG	1		
552	New Service item	Cleaning ,clearing & removal of malba after completion of work at site or removal of malba to carry out the work at site including Transportation	CUM	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
553	New Service item	Barricading Item for Electrical & Road restoration work Providing through Cone/Stand/Caution tape as per drawing / direction of Engineer-in-Charge which includes cost of material, plant, consumable, transport & labour for shifting, placing, painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamp, reflective signs, marking, flags, caution tape etc and regular maintenance complete. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. The barricading shall not be removed without prior approval of Engineer-in-Charge. "(Note: - One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	M	1		
554	New Service item	Cover malwa through green net/cloth.	SQM	1		
555	New Service item	Zebra paint/Paint on walls/foundation/fencing etc.	SQM	1		
556	New Service item	Connection/Disconnection of 3*400 sqmm.	EA	1		
557	New Service item	Laying of HT/LT cables through HDPE pipe/Hume pipe etc for 400 Sqmm.	M	1		

S.N.	SERVICE CODE	DESCRIPTION	UOM	ESTIMATED QTY. (A)	UNIT RATE (E/X GST@18%)(B) (RS.)	TOTAL C=A*B (RS.)
558	New Service item	Removal & Installation of FPI (Both RMU & O/H)	EA	1		
559	New Service item	Weigheing of Material at Dharam Kanta	EA	1		
560	New Service item	Construction of Plinth of size up to 5 Mt X 4 Mt X 3 Mt for Package Substation (CC structure) - The work includes Earth work in excavation, Providing and laying in position cement concrete of M15 grade (1 Cement: 2 Coarse Sand : 4 Graded stone agg. 40 mm nominal size) of height 400 mm, M25 grade RCC work for plinth wall and cable trench, 12 mm cement plaster on side wall of mix: 1:4 (1 cement : 4 coarse sand), Disposal of building rubbish / malba, Other associated works	LS	1		
561	New Service item	Installation of 11-meter length Distribution pole including civil foundation work as per BYPL approved drawing(Drawing Attached).	LS	1		
562	New Service item	Installation of 9-meter length Distribution pole including civil foundation work as per BYPL approved drawing(Drawing Attached).	LS	1		
					Total	
					GST@18%	
					Grand Total	

PART- B: EHV SCHEME ITEMS

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
1	4060253	Erection of 55' rails including digging,refilling,ramming of the foundation and including removal of malba ,grouting with cement concrete mortar to 16 cft. of 1:3:6 ratios (1 cement, 3 Badarpur, 6 Stone blast-Cement,Sand and Mortar to be supplied by the contractor). including transportation of pole from stackingsite within 1kms.Painting of Rail with one coat of primer & two coat of Al (Paint to be supplied by the contractor).Including brick padding.	EA	1		
2	4060254	Erection of 42' rails including digging , refilling,ramming of the foundation and including removal of malba ,grouting with cement concrete mortar to 16 cft. of 1:3:6 ratios (1 cement, 3 Badarpur, 6 Stone blast-Cement,Sand and Mortar to be supplied by the contractor).including transportation of pole from stacking site within 1kms.Painting of Rail with one coat of primer & two coat of Al (Paint to be supplied by the contractor).Including brick padding.	EA	12		
3	4060255	Stringing of ACSR WOLF Conductor, Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings for WOLF conductor,Single Suspension String Insulator fittings for WOLF conductor with drop/tension clamp,Single Suspension String Insulator fittings for WOLF conductor with suspension clamp,Bolted type 'T' Connector suitable for single WOLFconductor, Vibration Damper for WOLF Conductor,Mid span compression joint for ACSR WOLF,Repair Sleeve for WOLF ,PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)	KM	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
4	4060256	Stringing of ACSR GOAT Conductor, Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings with single tension clamp for single GOAT conductor ,Single Tension String Insulator fittings with double tension clamp for twin GOAT conductor,Double Tension String Insulator fittings with single tension clamp for single GOAT conductor,Single Suspension String Insulator fittings with single drop/tension clamp for single GOAT conductor, Single Suspension String Insulator fittings with double drop/tension clamp for twin GOAT conductor,Single Suspension String Insulator fittings with single suspension clamp for single GOAT conductor,Single Suspension String Insulator fittings with double suspension clamp for twin GOAT conductor ,Bolted type 'T' Connector suitable for single GOAT conductor,Vibration Damper for GOAT Conductor, Repair Sleeve for GOAT, Mid span compression joint for ACSR GOAT, Rigid Type Spacers for twin GOAT PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)	KM	0.6		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
5	4060257	Stringing of ACSR ZEBRA Conductor , Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings with single tension clamp for single ZEBRA conductor ,Single Tension String Insulator fittings with double tension clamp for twin ZEBRA conductor ,Double Tension String Insulator fittings with single tension clamp for single ZEBRA conductor,Single Suspension String Insulator fittings with single drop/tension clamp for single ZEBRA conductor ,Single Suspension String Insulator fittings with double drop/tension clamp for twin ZEBRA conductor ,Single Suspension String Insulator fittings with single suspension clamp for single ZEBRA conductor ,Single Suspension String Insulator fittings with double suspension clamp for twin ZEBRA conductor ,Bolted type 'T' Connector suitable for single ZEBRA conductor,Vibration Damper for ZEBRA Conductor,Repair Sleeve for ZEBRA,Mid span compression joint for ZEBRA,Rigid Type Spacers for twin ZEBRA,Tension Clamp for 7/3.15 earthwire,Vibration damper for Earthwire,7/3.15 GSS earthwire,PER CIRCUIT INCLUDING EARTH WIRE (PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)	KM	1		
6	4060258	Excavation for erection of any kind of pole or strut or stay in Ordinary Soil.	CUM	1		
7	4060259	Excavation for erection of any kind of pole or strut or stay in Brick-Work.	CUM	1		
8	4060260	Excavation for erection of any kind of pole or strut or stay in Footpath of tiles/Rajasthani or Kota or Agra-Stone/Tiles.	CUM	1		
9	4060261	Excavation for erection of any kind of pole or strut or stay in Ordinary Bitumenous Road or C.C Road .	CUM	7		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
10	4060262	Excavation for erection of any kind of pole or strut or stay in Dense Carpeted or Asphaltic portion.	CUM	1		
11	4060263	Excavation for erection of any kind of pole or strut or stay in Rocky-Area portion.	CUM	1		
12	4060264	Fixing of pucca stays in plinth of 8 cft. Concrete mortar of ratios 1:3:6 (1 cement,3 Badarpur 6 stone ballast), fixing of Base plate, Tension screws etc. with out fabrication work. Note: Badarpur,cement & Stone ballast to be provided by the contractor.- Excl.stay material & Excavation For HV pole.	EA	1		
13	4060265	Fixing of flying stay including Erection of pole / rail in the plinth of 8 cft. Concrete mortar of ratio 1:3:6 (1 cement 3 badarpur, 6 stone ballast) with Base plate, Tension screw etc. excluding fabrication works. (Note: Badarpur,cement & Stone ballast to be provided by the contractor) Excl. stay material & Excavation but i/c transp.of pole/rail within 1Km.of stacking site/site to site. For HV pole	EA	1		
14	4060266	Fixing of strut stay with clamps i/c.transp.of Pole from stacking site within one Km.excluding Digging,Concreting,& Brick Padding.For HV pole.	EA	1		
15	4060267	Making & fixing of guard lacs of G.I.Wire no.4/6/8 SWG. For HV pole.	EA	1		
16	4060268	Passing GI stay wire 7/8 or 7/9 or 7/10 SWG, through suitable size of G.I.Pipe fixing the pipe & stay wire on the pole with clamps & terminating the earth wire at cross arm & connecting the same with all the metal portions with proper binding wire (excluding fab, GI pipe and Stay wire supply).	EA	1		
17	4060130	Loading,Unloading & Transportation of Power Transformer Tank with-out accessories from any where in NCT of Delhi.(Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)For - 50 MVA/30 MVA,66/33 KV	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
18	4060131	Loading and Transportation of Power transformer tank from the place of its storage in store/any site, in Delhi, to erection site in Delhi (Max lead considered 50 KM) For 25 MVA, 66/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
19	4060132	Loading and Transportation of Power transformer tank from the place of its storage in store/any site, in Delhi, to erection site in Delhi (Max lead considered 50 KM) For 25 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
20	4060133	Loading and Transportation of Power transformer tank from the place of its storage in store/any site, in Delhi, to erection site in Delhi (Max lead considered 50 KM) For 20 MVA, 66/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
21	4060134	Loading and Transportation of Power transformer tank from the place of its storage in store/any site, in Delhi, to erection site in Delhi (Max lead considered 50 KM)For 20 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
22	4060135	Loading and Transportation of Power transformer tank from the place of its storage in store/any site, in Delhi, to erection site in Delhi (Max lead considered 50 KM) For 15/16 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
23	4060136	Loading and Transportation of Power transformer tank from the place of its storage in store/any site, in Delhi, to erection site in Delhi (Max lead considered 50 KM) For 10 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
24	4060137	Transportation including Loading,Unloading of Power Transformer Accessories from any where in NCT of Delhi.(Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.) For- 50MVA/ 30 MVA,66/33 KV	EA	1		
25	4060138	Transportation including Loading, unloading of Power transformer accessories from the place of its storage in store/any site, in Delhi, to truck/trailor, (Max lead considered 50 KM) .For 25 MVA, 66/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
26	4060139	Transportation including Loading, unloading of Power transformer accessories from the place of its storage in store/any site, in Delhi, to truck/trailor, (Max lead considered 50 KM) .For 25 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
27	4060140	Transportation including Loading, unloading of Power transformer accessories from the place of its storage in store/any site, in Delhi, to truck/trailor, (Max lead considered 50 KM) .For 20 MVA, 66/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
28	4060141	Transportation including Loading, unloading of Power transformer accessories from the place of its storage in store/any site, in Delhi, to truck/trailor, (Max lead considered 50 KM) .For 20 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
29	4060142	Transportation including Loading, unloading of Power transformer accessories from the place of its storage in store/any site, in Delhi, to truck/trailor, (Max lead considered 50 KM).For 15/16 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
30	4060143	Transportation including Loading, unloading of Power transformer accessories from the place of its storage in store/any site, in Delhi, to truck/trailor, (Max lead considered 50 KM).For 10 MVA, 33/11 KV (Crane,wooden sleepers,labour & all T&P etc.to be provided by the contractor.)	EA	1		
31	4060144	Unloading Shifting/dragging of power transformer tank along with all accessories from the place of its storage in store/any site, in Delhi, upto 30 mtrs near to truck/trailor and putting transformer on foundation For - 25 MVA, 66/11 KV	EA	1		
32	4060145	Unloading Shifting/dragging of power transformer tank along with all accessories from the place of its storage in store/any site, in Delhi, upto 30 mtrs near to truck/trailor and putting transformer on foundation For 25 MVA, 33/11 KV	EA	1		
33	4060146	Unloading Shifting/dragging of power transformer tank along with all accessories from the place of its storage in store/any site, in Delhi, upto 30 mtrs near to truck/trailor and putting transformer on foundation For - 20 MVA, 66/11 KV	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
34	4060147	Unloading Shifting/dragging of power transformer tank along with all accessories from the place of its storage in store/any site, in Delhi, upto 30 mtrs near to truck/trailor and putting transformer on foundation For 20 MVA, 33/11 KV	EA	1		
35	4060148	Unloading Shifting/dragging of power transformer tank along with all accessories from the place of its storage in store/any site, in Delhi, upto 30 mtrs near to truck/trailor and putting transformer on foundation For 15/16 MVA, 33/11 KV	EA	1		
36	4060149	Unloading Shifting/dragging of power transformer tank along with all accessories from the place of its storage in store/any site, in Delhi, upto 30 mtrs and putting transformer on foundation For 10 MVA, 33/11 KV	EA	1		
37	4060150	Dragging of Old/New Power Trfr.as per standard practice upto 30 mtrs.up to 20 MVA 33/11 KV or 66 / 11 KV	EA	1		
38	4060151	Dragging of Power Transformer above 30 mtrs	M	1		
39	4060152	Draging & Placing of new Power Trfr. 50 MVA,66/33 KV.i/c. (1) Assembly,Erection of new Power Trfr.with all the accessories such as radiator tubes/conservator tank with connector tubes,M/Box etc. (2)Laying/Testing of Protection control cable & connections such as cooling fans,OTI,WTI,M/Box,RTCC with all DC logic etc.,with change of connection with the supply of number ferrules,copper lugs etc.(3) Pipe Earthing for Power Trfr.after testing the earthing regular connection of MS Flat raises to Body neutral,M/Box,OLTC etc. (4) Fabrication of structure of 66KV/33KV side,LA Structures,the provision of LA's.NCT i/c.jumper of both sides of Trfr.or cables.	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
40	4060153	<p>Assembly/Erection and testing commissioning of power transformer and accessories including fabrication of channel frame for grouting of marshalling box, cable support structure, filling of oil and dehydration of oil by a high vacuum filter machine. Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required For 25 MVA, 66/11 kV Power Trf. Note 1 : Power transformer accessories include all standard fittings - radiator, conservator tank, OLTC and OLTC conservator tank, breather, Bushings, ladder, pipings, Marshalling box, fans, RTCC panel, control cables between transformer, marshalling box Note 2: Dehydration of transformer shall be in contractor's scope of work and a high vacuum filter plant shall be used by the contractor. Note: This include only the existing cables to be used, same glading and termination to be used, same supporting structure to be used. No additional cables laying glanding and tremination is in this scope. No new structure fabrication is in this scope</p>	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
41	4060154	<p>Assembly/Erection and testing commissioning of power transformer and accessories including fabrication of channel frame for grouting of marshalling box, cable support structure, filling of oil and dehydration of oil by a high vacuum filter machine. Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required For 25 MVA, 33/11 kV Power Trf. Note 1 : Power transformer accessories include all standard fittings - radiator, conservator tank, OLTC and OLTC conservator tank, breather, Bushings, ladder, pipings, Marshalling box, fans, RTCC panel, control cables between transformer, marshalling box Note 2: Dehydration of transformer shall be in contractor's scope of work and a high vacuum filter plant shall be used by the contractor. Note: This include only the existing cables to be used, same glazing and termination to be used, same supporting structure to be used. No additional cables laying glazing and termination is in this scope. No new structure fabrication is in this scope</p>	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
42	4060155	<p>Assembly/Erection and testing commissioning of power transformer and accessories including fabrication of channel frame for grouting of marshalling box, cable support structure, filling of oil and dehydration of oil by a high vacuum filter machine. Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required For 20 MVA, 66/11 kV Power Trf. Note 1 : Power transformer accessories include all standard fittings - radiator, conservator tank, OLTC and OLTC conservator tank, breather, Bushings, ladder, pipings, Marshalling box, fans, RTCC panel, control cables between transformer, marshalling box Note 2: Dehydration of transformer shall be in contractor's scope of work and a high vacuum filter plant shall be used by the contractor. Note: This include only the existing cables to be used, same glading and termination to be used, same supporting structure to be used. No additional cables laying glanding and tremination is in this scope. No new structure fabrication is in this scope</p>	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
43	4060156	<p>Assembly/Erection and testing commissioning of power transformer and accessories including fabrication of channel frame for grouting of marshalling box, cable support structure, filling of oil and dehydration of oil by a high vacuum filter machine. Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required For 20 MVA, 33/11 kV Power Trf. Note 1 : Power transformer accessories include all standard fittings - radiator, conservator tank, OLTC and OLTC conservator tank, breather, Bushings, ladder, pipings, Marshalling box, fans, RTCC panel, control cables between transformer, marshalling box Note 2: Dehydration of transformer shall be in contractor's scope of work and a high vacuum filter plant shall be used by the contractor. Note: This include only the existing cables to be used, same glazing and termination to be used, same supporting structure to be used. No additional cables laying glazing and termination is in this scope. No new structure fabrication is in this scope</p>	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
44	4060157	<p>Assembly/Erection and testing commissioning of power transformer and accessories including fabrication of channel frame for grouting of marshalling box, cable support structure, filling of oil and dehydration of oil by a high vacuum filter machine. Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required For 15/16 MVA, 33/11 kV Power Trf. Note 1 : Power transformer accessories include all standard fittings - radiator, conservator tank, OLTC and OLTC conservator tank, breather, Bushings, ladder, pipings, Marshalling box, fans, RTCC panel, control cables between transformer, marshalling box Note 2: Dehydration of transformer shall be in contractor's scope of work and a high vacuum filter plant shall be used by the contractor. Note: This include only the existing cables to be used, same glazing and termination to be used, same supporting structure to be used. No additional cables laying glazing and termination is in this scope. No new structure fabrication is in this scope</p>	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
45	4060158	Assembly/Erection and testing commissioning of power transformer and accessories including fabrication of channel frame for grouting of marshalling box, cable support structure, filling of oil and dehydration of oil by a high vacuum filter machine.Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required For 10 MVA, 33/11 kV Power Trf. Note 1 : Power transformer accessories include all standard fittings - radiator, conservator tank, OLTC and OLTC conservator tank, breather, Bushings, ladder, pipings, Marshalling box, fans, RTCC panel, control cables between transformer, marshalling box Note 2: Dehydration of transformer shall be in contractor's scope of work and a high vacuum filter plant shall be used by the contractor.Note: This include only the existing cables to be used, same glazing and termination to be used, same supporting structure to be used. No additional cables laying glazing and termination is in this scope. No new structure fabrication is in this scope	EA	1		
46	4060159	Charges for Testing,Dehydration of Trfr.Oil/OLTC-Oil as reqd.at site i/c.using of own (contractor's) filter machine,tool & plant,labour and submission of Test-Results as per standard practice.	L	1		
47	4060160	Cleaning & Painting of Power-Trfr.with one coat of red-oxide primer and two coats of light grey paint i/c.supply of superior quality paint (ISI-marked),all labour,brushes etc.by contractor.	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
48	4060161	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV SF6 Circuit Breaker including support structure	EA	1		
49	4060162	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required. For 66 kV MOCB, including filling up,dehydration of oil, testing of oil sample	EA	1		
50	4060163	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV isolator without earth switch	EA	1		
51	4060164	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV isolator with one earth switch	EA	1		
52	4060165	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV isolator with two earth switch	EA	1		
53	4060166	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV /33KV CT, any ratio	EA	12		
54	4060167	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV/33KV PT	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
55	4060168	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV/33KV CVT	EA	1		
56	4060169	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 66 kV LA's with or without surge counter	EA	30		
57	4060170	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV SF6 circuit breaker with mechanism and structure	EA	4		
58	4060171	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV MOCB, including filling up,dehydration of oil, testing of oil sample.	EA	1		
59	4060172	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV isolator without earth switch	EA	4		
60	4060173	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV isolator with one earth switch	EA	8		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
61	4060174	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV isolator with two earth switch	EA	1		
62	4060175	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV LA's with/without surge counter	EA	9		
63	4060176	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV Indoor switchgear, Line panel with single bus bar arrangement	EA	1		
64	4060177	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV Indoor switchgear, Transformer panel with single bus bar arrangement	EA	1		
65	4060178	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV Indoor switchgear, Bus coupler panel with single bus bar arrangement	EA	1		
66	4060179	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV Indoor switchgear, Bus PT panel with single bus bar arrangement	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
67	4060180	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 33 kV/11kv Indoor switchgear, Bus trunking panel with single bus bar arrangement	EA	1		
68	4060181	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 11 kV Indoor switchgear, Incomer panel & bus coupler	EA	1		
69	4060182	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 11 kV, Indoor switchgear, Outgoing panel	EA	1		
70	4060183	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 11 kV, Indoor switchgear, Capacitor panel	EA	1		
71	4060184	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 11 kV, Indoor switchgear, Station transformer panel	EA	1		
72	4060185	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 11/.433 kV, unit substation comprizing of 2 nos. , 100 kVA Station transformer, Dry type and ACDB and off load isolators	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
73	4060186	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For DC Battery Bank 220 V, 100 AH/150 AH complete with accessories i.e. wooden structure, battery cells	EA	1		
74	4060187	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For DC Battery Bank 50 V, 100 AH/150 AH complete with accessories i.e. wooden structure, battery cells	EA	1		
75	4060188	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 50/220 V DC distribution Board	EA	1		
76	4060189	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 50/220 V Float cum boost battery charger	EA	1		
77	4060190	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For Bay Terminal/Marshalling Kiosk	EA	2		
78	4060191	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For CT/PT Junction Box	EA	3		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
79	4060192	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For Control and relay panel forTransformer, line, Bus coupler, - 66 kV, C & R panel	EA	1		
80	4060193	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For Control and relay panel forTransformer, line, Bus coupler.- 33 kV, C & R panel	EA	1		
81	4060194	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For Bus Post Insulator	EA	1		
82	4060195	Erection of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required.For 9KV LA	EA	1		
83	4060196	Erection of MOM box for 33 and 66KV Insulator including welding, cutting etc.	EA	1		
84	4060197	Stringing and sagging of main bus and cover bus bar with ACSR Zebra conductor and Jumpering of various electrical equipment by ACSR Zebra conductor in between equipment to equipment of any length required and from bus bar to equipment of any length required with the help of PG clamps, T connectors and other clamps. For 66 kV /33KV Yard	M	200		
85	4060198	Stringing and sagging of screen wire 7/9 gauge including assembly and erection of hardware fitting and connecting earthing to the gantry structure by crimping of copper socket .For 66 kV/33 KV Yard	M	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
86	4060199	Stringing of Double Tension String Insulator with double tension clamp for twin Zebra conductor	EA	1		
87	4060200	Stringing of Single Tension String Insulator with single tension clamp for single Zebra conductor	EA	1		
88	4060201	Stringing of Single Suspension String Insulator with double tension clamp for twin Zebra conductor	EA	1		
89	4060202	Stringing of Single Suspension String Insulator with single tension clamp for single Zebra conductor	EA	1		
90	4060203	Stringing of Bolted type 'T'/PG Connector suitable for single Zebra conductor	EA	60		
91	4060204	Stringing of Rigid Spacer Clamp with tee – off suitable for single Zebra conductor and double zebra to single zebra convertor.	EA	1		
92	4060205	Excavation of trench below the ultimate good earth level in following type of soil including refilling after laying of eath mat riser, fixing of earth electrodes welding etc. For Soft soil	CUM	158		
93	4060206	Excavation of trench below the ultimate good earth level in following type of soil including refilling after laying of eath mat riser, fixing of earth electrodes welding etc. For Semi rocky/rocky soil with providing of good earth	CUM	1		
94	4060207	Laying of MS flat in the excavatd trench including risers, equipment earthing, overlapping of MS flat at the joints by twice of its width and welding of over lapping and cross joints including supply of electrodes, red oxide/bitumin compound , paint etcand Laying of GI earth strip for equipment earthing, along the wall, trench, cable trays etc including fabrication of supports/cleats and fixing with wall bolts, welding works, painting of earth strip and riser with red oxide paint/bitumin compound and final. For 75x12sqmm	M	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
95	4060208	Laying of MS flat in the excavatd trench including risers, equipment earthing, overlapping of MS flat at the joints by twice of its width and welding of over lapping and cross joints including supply of electrodes, red oxide/bitumin compound , paint etcand Laying of GI earth strip for equipment earthing, along the wall, trench, cable trays etc including fabrication of supports/cleats and fixing with wall bolts, welding works, painting of earth strip and riser with red oxide paint/bitumin compound and final. For 50X6 sqmm	M	2316		
96	4060209	Laying of MS flat in the excavatd trench including risers, equipment earthing, overlapping of MS flat at the joints by twice of its width and welding of over lapping and cross joints including supply of electrodes, red oxide/bitumin compound , paint etcand Laying of GI earth strip for equipment earthing, along the wall, trench, cable trays etc including fabrication of supports/cleats and fixing with wall bolts, welding works, painting of earth strip and riser with red oxide paint/bitumin compound and final. For 25X6 sqmm	M	112		
97	4060210	Laying of MS flat in the excavatd trench including risers, equipment earthing, overlapping of MS flat at the joints by twice of its width and welding of over lapping and cross joints including supply of electrodes, red oxide/bitumin compound , paint etcand Laying of GI earth strip for equipment earthing, along the wall, trench, cable trays etc including fabrication of supports/cleats and fixing with wall bolts, welding works, painting of earth strip and riser with red oxide paint/bitumin compound and final. For 40 mm dia MS Rod	M	1		
98	4060211	Laying, dressing, megger and contnuity test of PVC, armoured control and auxilary power cables in excavated trench/cable trays .For 3.5 Cx 150 sqmm, Al	M	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
99	4060212	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 3.5 Cx 95 sqmm, Al	M	1		
100	4060213	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 3.5 Cx 50 sqmm, Al	M	1		
101	4060214	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 4 Cx 35 sqmm, Al	M	1		
102	4060215	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 4 Cx 16 sqmm, Al	M	1		
103	4060216	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 19CX2.5 sqmm, Cu	M	1		
104	4060217	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 16CX2.5 sqmm, Cu	M	1		
105	4060218	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 12CX2.5 sqmm, Cu	M	1		
106	4060219	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 10CX2.5 sqmm, Cu	M	3840		
107	4060220	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 7CX2.5 sqmm, Cu	M	1		
108	4060221	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 6/5CX2.5 sqmm, Cu	M	1348		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
109	4060222	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 4CX2.5 sqmm, Cu	M	1		
110	4060223	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 3CX2.5 sqmm, Cu	M	1		
111	4060224	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 2CX2.5 sqmm, Cu	M	1		
112	4060225	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 4CX6 sqmm, Cu	M	1		
113	4060226	Laying, dressing, megger and continuity test of PVC, armoured control and auxiliary power cables in excavated trench/cable trays .For 2CX10 sqmm, Cu	M	1		
114	4060227	Erection of double compression gland including termination For 3.5 Cx 150 sqmm, Al	EA	1		
115	4060228	Erection of double compression gland including termination For 3.5 Cx 95 sqmm, Al	EA	1		
116	4060229	Erection of double compression gland including termination For 3.5 Cx 50 sqmm, Al	EA	1		
117	4060230	Erection of double compression gland including termination For 4 Cx 35 sqmm, Al	EA	1		
118	4060231	Erection of double compression gland including termination For 4 Cx 16 sqmm, Al	EA	1		
119	4060232	Erection of double compression gland including termination For 19CX2.5 sqmm, Cu	EA	1		
120	4060233	Erection of double compression gland including termination For 16CX2.5 sqmm, Cu	EA	1		
121	4060234	Erection of double compression gland including termination For 12CX2.5 sqmm, Cu	EA	1		
122	4060235	Erection of double compression gland including termination For 10CX2.5 sqmm, Cu	EA	138		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
123	4060236	Erection of double compression gland including termination For 7CX2.5 sqmm, Cu	EA	1		
124	4060237	Erection of double compression gland including termination For 5CX2.5 sqmm, Cu	EA	6		
125	4060238	Erection of double compression gland including termination For 4CX2.5 sqmm, Cu	EA	1		
126	4060239	Erection of double compression gland including termination For 3CX2.5 sqmm, Cu	EA	1		
127	4060240	Erection of double compression gland including termination For 2CX2.5 sqmm, Cu	EA	1		
128	4060241	Erection of double compression gland including termination For 4CX6 sqmm, Cu	EA	1		
129	4060242	Erection of double compression gland including termination For 2CX10 sqmm, Cu	EA	1		
130	4060243	Installation of ladder type cable trays including fixing of supports, tees, bands, joints ,cantilever and supporting structures. For 600 mm wide	M	1		
131	4060244	Installation of ladder type cable trays including fixing of supports, tees, bands, joints ,cantilever and supporting structures. For 300 mm wide	M	1		
132	4060245	Installation of ladder type cable trays including fixing of supports, tees, bands, joints ,cantilever and supporting structures.For 100 mm wide	M	30		
133	4060246	Cable laying of 6.35/11KV,XLPE,stranded Aluminium 1CX1000sq. mm Armoured,FRLS outer PVC sheath	M	2168		
134	4060247	Cable laying of 6.35/11KV,XLPE,stranded Aluminium 3CX300sq. mm Armoured,FRLS outer PVC sheath	M	1		
135	4060248	Cable laying of 33KV,XLPE,stranded Aluminium 3CX400sq. mm Armoured,FRLS outer PVC sheath	M	10373		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
136	4060249	Fabrication of MS structure as well as galvanised for different equipment like isolator, C.T.'s, P.T.'s, CVT, LA's etc, cable supporting structure including supply of nuts and bolts, consumables , welding electrode, hacksaw blades etc. excluding supply of steel.	MT	19.327		
137	4060250	Fabrication work using MS steel (for any type & as per drawing, specification provided by BSES) including all consumables i.e. welding rods, supplying and providing 2 coats of red oxide primer and one coat of aluminum paint, nuts, bolts and washers. All type frames,structure,clamps etc.Steel shall be provided by Contactor.	KG	746		
138	4060251	S/I/T/C of 11 KV Bus-Trunking Chamber suitable for joining the H.T. panel i/c Fabrication of M.S Steel chamber with M.S Steel sheet and Angle Frame,its painting with one coat of primer and two coats of required colour ISI marked paint to match the colour with existing H.T panels,Fabrication of copper Bus, Bar,Supply and fixing the Aluminium bottom plate with cable entry holesand transportation of all items from Grid to work shop and vice-versa complete as required.	EA	1		
139	4060252	Supply and fixing of H.T.Heat-Shrink Sleeve of 75mm dia for fixing to 11 KV,Bus-Bars complete as required.	M	1		
140	4060269	Dismantling of circuit breaker with machanisum box & CT i/c.determination of control cable,removal of jumpering & draining of oil and shifting upto the transport place. 66KV MOCB/OCB/SF6	EA	1		
141	4060270	Dismantling of 66 kV isolator without earth switch	EA	1		
142	4060271	Dismantling of 66 kV isolator with one earth switch	EA	1		
143	4060272	Dismantling of 66 kV isolator with two earth switch	EA	1		
144	4060273	Dismantling of 66 kV/33 kv CT, any ratio	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
145	4060274	Dismantling of 66 kV PT	EA	1		
146	4060275	Dismantling of 66 kV CVT	EA	1		
147	4060276	Dismantling of 66 kV LA's with surge counter	EA	24		
148	4060277	Dismantling of 66 kV LA's without surge counter	EA	1		
149	4060278	Dismantling of circuit breaker with machanisum box & CT i/c.determination of control cable,removal of jumpering & draining of oil and shifting upto the transport place.33KV MOCB/OCB/SF6/VCB	EA	2		
150	4060279	Dismantling of 33 kV isolator without earth switch	EA	2		
151	4060280	Dismantling of 33 kV isolator with one earth switch	EA	4		
152	4060281	Dismantling of 33 kV isolator with two earth switch	EA	1		
153	4060282	Dismantling of 33 kV CT, any ratio	EA	6		
154	4060283	Dismantling of 33 kV PT	EA	1		
155	4060284	Dismantling of 33 kV CVT	EA	1		
156	4060285	Dismantling of 33 kV LA's with surge counter	EA	9		
157	4060286	Dismantling of 33 kV LA's without surge counter	EA	1		
158	4060287	Dismantling of 33 kV Indoor switchgear, Line panel with single bus bar arrangement	EA	1		
159	4060288	Dismantling of 33 kV Indoor switchgear, Transformer panel with single bus bar arrangement	EA	1		
160	4060289	Dismantling of 33 kV Indoor switchgear, Bus coupler panel with single bus bar arrangement	EA	1		
161	4060290	Dismantling of 33 kV Indoor switchgear, Bus PT panel with single bus bar arrangement	EA	1		
162	4060291	Dismantling of 33 kV Indoor switchgear, Bus trunking panel with single bus bar arrangement	EA	1		
163	4060292	Dismantling of 11 kV Indoor switchgear, Incomer panel	EA	1		
164	4060293	Dismantling of 11 kV, Indoor switchgear, Outgoing panel	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
165	4060294	Dismantling of 11 kV, Indoor switchgear, Capacitor panel	EA	1		
166	4060295	Dismantling of 11 kV, Indoor switchgear, Station transformer panel	EA	1		
167	4060296	Dismantling of AC Distribution board	EA	1		
168	4060297	Dismantling of DC Battery Bank 220 V, 100 AH/150 AH complete with accessories i.e. wooden structure, battery cells	EA	1		
169	4060298	Dismantling of DC Battery Bank 50 V, 100 AH/150 AH complete with accessories i.e. wooden structure, battery cells	EA	1		
170	4060299	Dismantling of 50/220 V DC distribution Board	EA	1		
171	4060300	Dismantling of 50/220 V Float cum boost battery charger	EA	1		
172	4060301	Dismantling of Bay Terminal/Marshalling Kiosk	EA	1		
173	4060302	Dismantling of CT/PT Junction Box	EA	1		
174	4060303	Dismantling of MOM Box for 33 and 66KV Isolator with Earth	EA	1		
175	4060304	Dismantling of 66 KV Control Relay Panel	EA	1		
176	4060305	Dismantling of 33 KV Control Relay Panel	EA	1		
177	4060306	Dismantling 9KV LA	EA	1		
178	4060307	Dismantling of Main bus and cover bus bar with ACSR Zebra conductor including all hardware fittings, insulators for 66 kV Yard	M	1		
179	4060308	Dismantling of Main bus and cover bus bar with ACSR Zebra conductor including all hardware fittings, insulators for 33 kV Yard	M	80		
180	4060309	Dismantling of Screen wire 7/9 gauge including all hardware fittings, insulators for 66 kV Yard	M	2600		
181	4060310	Dismantling of Screen wire 7/9 gauge including all hardware fittings, insulators for 33 kV Yard	M	1		
182	4060311	Dismantling/ Reclaiming and de-termination of HV cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 33 KV cables 3cX400 Sqmm	M	663		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
183	4060312	Dismantaling/ Reclaiming and de-termination of HV cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 11 kV, 1CX1000 sqmm XLPE cable	M	1		
184	4060313	Dismantaling/ Reclaiming and de-termination of HV cables from dugged trench and re-rolling the cable on the drum or in the shape of coil and transportation to store/ tent site for 11 kV, 3CX300 sqmm XLPE cable	M	16		
185	4060314	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 3.5 Cx 150 sqmm, Al	M	1		
186	4060315	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 3.5 Cx 95 sqmm, Al	M	1		
187	4060316	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 3.5 Cx 50 sqmm, Al	M	1		
188	4060317	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 4 Cx 35 sqmm, Al	M	1		
189	4060318	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 4 Cx 16 sqmm, Al	M	1		
190	4060319	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 19CX2.5 sqmm, Cu	M	1		

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191	4060320	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 16CX2.5 sqmm, Cu	M	1		
192	4060321	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 12CX2.5 sqmm, Cu	M	1		
193	4060322	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 10CX2.5 sqmm, Cu	M	1		
194	4060323	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 7CX2.5 sqmm, Cu	M	1		
195	4060324	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 5CX2.5 sqmm, Cu	M	1		
196	4060325	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 4CX2.5 sqmm, Cu	M	1		
197	4060326	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 3CX2.5 sqmm, Cu	M	1		
198	4060327	Dismantaling/ Reclaiming and de-termination of PVC insulated, armoured control and auxiliary power cables from dugged trench and re-rolling the cable on the drum or in the shape of coil for 2CX2.5 sqmm, Cu	M	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
199	4060328	Dismantalling of ACSR WOLF Conductor, Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings for WOLF conductor,Single Suspension String Insulator fittings for WOLF conductor with drop/tension clamp,Single Suspension String Insulator fittings for WOLF conductor with suspension clamp,Bolted type 'T' Connector suitable for single WOLFconductor, Vibration Damper for WOLF Conductor,Mid span compression joint for ACSR WOLF,Repair Sleeve for WOLF ,PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)	KM	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
200	4060329	Dismantalling of ACSR GOAT Conductor, Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings with single tension clamp for single GOAT conductor ,Single Tension String Insulator fittings with double tension clamp for twin GOAT conductor,Double Tension String Insulator fittings with single tension clamp for single GOAT conductor,Single Suspension String Insulator fittings with single drop/tension clamp for single GOAT conductor, Single Suspension String Insulator fittings with double drop/tension clamp for twin GOAT conductor,Single Suspension String Insulator fittings with single suspension clamp for single GOAT conductor,Single Suspension String Insulator fittings with double suspension clamp for twin GOAT conductor ,Bolted type 'T' Connector suitable for single GOAT conductor,Vibration Damper for GOAT Conductor, Repair Sleeve for GOAT, Mid span compression joint for ACSR GOAT, Rigid Type Spacers for twin GOAT PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)	KM	5.2		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
201	4060330	<p>Dismantling of ACSR ZEBRA Conductor , Earthwire, Insulator & Hardware Fittings i.e.Single Tension String Insulator fittings with single tension clamp for single ZEBRA conductor ,Single Tension String Insulator fittings with double tension clamp for twin ZEBRA conductor ,Double Tension String Insulator fittings with single tension clamp for single ZEBRA conductor,Single Suspension String Insulator fittings with single drop/tension clamp for single ZEBRA conductor ,Single Suspension String Insulator fittings with double drop/tension clamp for twin ZEBRA conductor ,Single Suspension String Insulator fittings with single suspension clamp for single ZEBRA conductor ,Single Suspension String Insulator fittings with double suspension clamp for twin ZEBRA conductor ,Bolted type 'T' Connector suitable for single ZEBRA conductor,Vibration Damper for ZEBRA Conductor,Repair Sleeve for ZEBRA,Mid span compression joint for ZEBRA,Rigid Type Spacers for twin ZEBRA,Tension Clamp for 7/3.15 earthwire,Vibration damper for Earthwire,7/3.15 GSS earthwire, PER CIRCUIT INCLUDING EARTH WIRE(PER CIRCUIT MEANS 3 CONDUCTORS AND ONE EARTH WIRE INCLUDING HARDWARE FITTINGS AND ACCESSORIES)</p>	KM	1		
202	4060331	Dismantaling of Anticlimbing devices	EA	1		
203	4060332	Dismantaling of Danger Plates	EA	1		
204	4060333	Dismantaling of Number Plates	EA	1		
205	4060334	Dismantaling of Phase Plates	EA	1		
206	4060335	Dismantaling of Circuit Plates	EA	1		
207	4060336	Dismantalling of poles of following sizes after digging the pit and taking out the pole and stacking the pole at a proper place in safe positions and refilling the pit with loose earth and ramming including removal of Malba..MS rails/Struts.	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
208	4060337	Dismantling of MS as well as galvanised structure for different equipment like isolator, C.T.'s, P.T.'s, CVT, LA's , ISO etc, cable supporting structure, 33kV/66 kV GI gantry and tower structure including consumables , welding electrode & hacksaw blades etc.	MT	43.14		
209	4060338	Dismantling of old Power Transformer.by taking the oil level upto the transformer core & after dismantling the Transformer Accessories i/c.Radiator tubes & Conservator tank etc.& Dragging of old/defective Power Transformer as per standard practice.For 30MVA,66/33KV	EA	1		
210	4060339	Dismantling of old Power Trfr.by taking the oil level upto the trfr.core & after dismantling the Trfr.Accessories i/c.Radiator tubes & Conservator tank etc. Upto 20MVA, 33/11KV or 66/11 KV	EA	1		
211	4060340	Dismatling of cable structure and dismounting of 6Nos 1X1000MM cables end boxes from its structure after cutting the channel frame and dismantalling cleats & post insulators	EA	1		
212	4060341	Demolishing cement concrete including disposal of material outside the premises: PCC	CUM	37		
213	4060342	Detail survey i/c.prepration of site plan & profile.	KM	7.4		
214	4060343	Earth work excavation upto 1.5M in foundation trenches of drains i/c.dressing of sides and ramming of bottoms,lift upto 1.5M ,getting out the excavated soil and disposal of surplus excavated soil as directed with a lead of 50M in all kind of soil. Payment shall be as per PCC area only.	CUM	1		
215	4060344	Filling available excavated earth (excluding rock) in trenches,plinth,sides of foundation etc.in layers not exceeding 20cm in depth,consolidating each deposited layers by ramming and watering,lead upto 50M and lift upto 1.5M.	CUM	91		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
216	4060345	For every addl. excavation of more than 1.5M to required height as per site condition in- All kinds of soil.(In addition to digging item)	CUM	1		
217	4060346	Reinforcement for RCC work i/c.straightening, cutting, bending, binding and placing in position and binding all complete the Cold twisted bars i/c. cost of Tor Steel of required size.	MT	1		
218	4060347	Setting of stubs (set of 4) for normal & extension tower i/c.re-check,survey & painting of un-galvanised tower legs with black bituminous paint of approved quality upto 1M back filling.	EA	1		
219	4060348	Erection of MS as well as galvanised structure for different equipment like isolator, C.T.'s, P.T.'s, CVT, LA's , ISO etc, cable supporting structure, 33kV/66 kV GI gantry structure , Tower Structure i/c consumables , welding electrode , tack welding & hacksaw blades etc.	MT	19.041		
220	4060349	Making termination in the existing line i/c.sagging and jumpering complete for 6Nos.Conductors with one earth wire.	EA	4		
221	4060350	De-watering of pits, Manually.	HR	1		
222	4060351	De-watering of pits with the help of Mech.Pump (5H.P.) rating	HR	529		
223	4060352	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of shuttering, centring, finishing and reinforcement-All work upto plinth level : 1:1.5:3 (1cement :1.5coarse sand :3graded stone agg.20mm nominal size.)	CUM	1		
224	4060353	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of shuttering, centring, finishing and reinforcement-All work upto plinth level : 1:2:4 (1cement :2 coarse sand :4 graded stone agg.20mm nominal size.)	CUM	22		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
225	4060354	Random rubble masonry with Hard Stone in foundation and plinth including leveling up with cement concrete 1: 6 :12(1 cement : 6 Coarse Sand : 12 graded stone aggregate 20 mm nominal size) at plinth level with :- Cement mottar 1:6 (1 cement : 6 coarse sand).	CUM	1		
226	4060355	Shoring & Shuttering i/c.strutting,propping etc.and removal of form for Foundations,footings,bases of columns etc.for mass concrete as per site requirement complete.	SQM	1		
227	4060356	Providing and fixing of Anti climbing device.	EA	8		
228	4060357	Providing and Fixing of Danger plates.	EA	40		
229	4060358	Providing and Fixing of number plates .	EA	1		
230	4060359	Providing and Fixing of Phase plates .	EA	1		
231	4060360	Providing and Fixing of circuit plates .	EA	24		
232	4060361	Dismantalling / Laying of tension string of ACSR Goat conductor with earth wire (6Nos conductors+one earth wire for D/C/T/L) for crossing of Railway Line with the permission & time bound Shut-Down from Railway Authorities.	EA	1		
233	4060362	Cutting of stubs (Each member)	EA	56		
234	4060363	Supply and fixing of wire mesh fencing 2.65 mtr height with gate frame of 3 mtr x 2.5 mtr with complete material including painting eg angle,chain link,wire mesh and civil material etc complete as per specification,drawing no.Angle iron size 50x50x6 mm & MS strip 50 x 3 mm wire mesh 1"x3", 8 SWG wire to be used for wire-mesh with providing support at 1.25 distance.	SQM	412		
235	4060364	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level :- 1:4:8 (1cement : 4 coarse sand : 8 graded stone agg. 20 mm nominal size.)	CUM	1.7		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
236	4060365	Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead upto 20kms having continuous agitated mixer, manufactured as per mix design of specified grade for cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer in - charge. M- 20 grade Reinforced cement concrete. All works upto floor V level."	CUM	1		
237	4060366	Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated . For Ordinary Soil.	CUM	1602		
238	4060367	Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated . For Footpath/tile/Rajasthani Stone/Brick work.	CUM	2937.42		
239	4060368	Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated . For Ordinary Bituminous/C.C.Road.	CUM	6462.64		
240	4060369	Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated . For Dense Carpeted bituminous Road.	CUM	8172.92		
241	4060370	Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated. For Semi Rocky Soil	CUM	84.5		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
242	4060371	Digging of cable trench as per specification and drawings. Rate is inclusive of digging and backfilling. Measurement shall be as per actual depth excavated. For Rocky Soil	CUM	2075.2		
243	4060372	Removal of Malba including Loading / Unloading on own vehicle. The payment shall be restricted to the quantity of sand laid.	CUM	5935.68		
244	4060373	Providing and Laying Sand cushioning for cable route as per BRPL/BYPL specification and drawing.	CUM	3870.58		
245	4060374	Digging of joint pit suitable for 33/66 KV cable joint box and covering the joint box with sand and providing protection as per BYPL/BRPL design. For Ordinary soil	Cum	5		
246	4060375	Digging of joint pit suitable for 33/66 KV cable joint box and covering the joint box with sand and providing protection as per BYPL/BRPL design. for Footpath/ tile/ Rajasthani Stone / Brick Wroks	Cum	240.41		
247	4060376	Digging of joint pit suitable for 33/66 KV cable joint box and covering the joint box with sand and providing protection as per BYPL/BRPL design. For Ordinary bituminous road	Cum	725.36		
248	4060377	Digging of joint pit suitable for 33/66 KV cable joint box and covering the joint box with sand and providing protection as per BYPL/BRPL design. For Dense carpeted bituminous road.	Cum	803.75		
249	4060378	Digging of joint pit suitable for 33/66 KV cable joint box and covering the joint box with sand and providing protection as per BYPL/BRPL design. For Semi Rocky Soil	Cum	18		
250	4060379	Digging of joint pit suitable for 33/66 KV cable joint box and covering the joint box with sand and providing protection as per BYPL/BRPL design. For Hard Rocky Soil	Cum	126.87		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
251	4060380	Digging of test pits of requiried size(not lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging for Ordinary Soil	EA	1		
252	4060381	Digging of test pits of requiried size(not lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging for Footpath/ tile/ Rajasthani Stone / Brick Wroks	EA	102		
253	4060382	Digging of test pits of requiried size(not lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging For Ordinary bituminous road	EA	136		
254	4060383	Digging of test pits of requiried size(not lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging For Dense carpeted bituminous road / CC Road	EA	353		
255	4060384	Digging of test pits of requiried size(not lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging For Semi Rocky Soil	EA	26		
256	4060385	Digging of test pits of requiried size(not lessthan 1/2 Mtr. Wide at site for identification of cable route). Relevent volume shall be deducted from quantities of same item of cable digging For Hard Rocky Soil	EA	37		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
257	4060386	Laying of under ground cable in trench ,covering with RCC cable cover,covering with sand ,Sand cushion will be min 75mm below and 75mm above the cable, fixing of cable identification tags (9" X 4") at every 30 Mtrs, Laying of warning tape above 250mm of the docket, refilling the trench and ramming the surface & removal of malba if any, including watch and ward till charging of cable (This activity includes only labour jobs) for 33 KV cable Running Mtr	M	19455		
258	4060387	Laying of under ground cable in trench ,covering with RCC cable cover,covering with sand ,Sand cushion will be min 75mm below and 75mm above the cable, fixing of cable identification tags (9" X 4") at every 30 Mtrs, Laying of warning tape above 250mm of the docket, refilling the trench and ramming the surface & removal of malba if any, including watch and ward till charging of cable (This activity includes only labour jobs) for 66 KV single core cable Running Mtr	M	29683		
259	4060388	Laying of under ground cable in trench ,covering with RCC cable cover,covering with sand ,Sand cushion will be min 75mm below and 75mm above the cable, fixing of cable identification tags (9" X 4") at every 30 Mtrs, Laying of warning tape above 250mm of the docket, refilling the trench and ramming the surface & removal of malba if any, including watch and ward till charging of cable (This activity includes only labour jobs) for 66 KV three core cable Running Mtr	M	10166		
260	4060389	Extra for handling of 66KV Cable from cable drum. Note:If the Drum length is more than 250Mtr.	M	41445		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
261	4060390	Grouting of cable mounting structure with cement concrete having ratio 1:3:6 including fixing with gantry structure. Badarpur, cement and stone ballast shall be supplied by contractor.Suitable for mounting 33/66 KV cable.	EA	21		
262	4060391	Supply and fixing of Cable Route/Joint Marker as per approved drawing.For 33/66 KV cables.	EA	374		
263	4060392	Laying of Hume pipe - 200mm dia.	M	1		
264	4060393	Laying of 8" O.D. GI pipe for crossing small Nallas in the cable route.	M	144		
265	4060394	Charges for Hi pot test - Testing equipment to be provided by the contractor. For 33 KV cables	EA	83		
266	4060395	Charges for Hi pot test - Testing equipment to be provided by the contractor. For 66 KV cables	EA	131		
267	4060396	Mounting of 33KV,3x400sq.mm.XLPE cable with cable end box on the steel structure and fixing it with suitable wooden cleats (wooden cleats shall be supplied by contractor) i/c.its jumpering with the isolator as required.	EA	56		
268	4060397	Mounting of 66KV,1x630sq.mm.XLPE cable with cable end box on the steel structure and fixing it with suitable wooden cleats (wooden cleats shall be supplied by contractor) i/c.its jumpering with the isolator as required.	EA	42		
269	4060398	Laying of HDPE pipe for crossing small Nallas in the cable route or in the existing trenches	M	20212		
270	4060399	Reseting, mounting and connection of cable structure and dismounting of 6Nos 1X1000MM cables end boxes from its structure and installtion of cleats & post insulators	EA	1.5		
271	4060400	Painting of any M.S.Structure with one coat of Red oxide and two coats of AL.paint ISI marked including supply of paint by contractor.	KG	18564.286		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
272	4060401	Charges for providing continous steel barricade 1.2 mtr high including cost of all material plant consumables transport and labour for shifting placing painting and regular maintenance.40% qty for selected portion	M	20669		
273	4060402	Laying of 40mm dia, HDPE Duct through trenchless method using HDD machine	M	3794		
274	4060403	Laying of 40mm dia HDPE Duct in open trench	M	24396		
275	4060404	Laying of Optical Fiber cable	M	28016		
276	4060405	Digging of earth pit upto depth of 10 ft. inrocky/ semi rocky as per feasibility at site of embedding 600 x600mm earth plate with M.S Flate 50 x8 mm running the same through 3/4 " dia G.I. grouting pipe. Earth Plate to be covered by charcoal 200kg. And 100 Kg. Sodium chloride in the earth pit and refilling etc. NOTE: Charcoal, commonsalt, earth plate, G.I. Pipe, MS flat, Badarpur, Cement and bricks to be supplied by the contractor	EA	84		
277	4060406	Erection of ground earthing with 100 mm dia, 6 mtr long, GI Pipe electrode,fabrication and fixing of clamps, test links, funnel including supply of sand and charcoal.	EA	1		
278	4060407	Erection of ground earthing with 40 mm dia, 3 mtr long, GI Pipe electrode,fabrication and fixing of clamps, test links, funnel including supply of sand and charcoal.	EA	1		
279	4060408	Erection of ground earthing with 40 mm dia, 3 mtr long, MS rod electrode, fabrication and fixing of clamps and test links, including supply of sand and charcoal.	EA	1		
280	4060409	Making of civil goomitties around GI earthpipe as per standard design of BSES. Supply of necessary bricks, cement, badarpur, sand, C1 cover of size 1'x1' and providing the same at the top of goomitties.	EA	84		
281	4060410	Supply of B Class GI Pipe 8" O.D.	M	1		
282	4060411	Supply of Glands 4X25MM	EA	1		
283	4060412	Supply of Glands 10X2.5MM	EA	138		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
284	4060413	Supply of Glands 5X 2.5MM	EA	6		
285	4060414	Supply of RCC Cable protection cover as per BYPL/BRPL specification & drawing. (50 Thick 550 mm wide)	EA	33727		
286	4060415	Supply of 200mm dia, NP 2 class Hume pipe.	M	1		
287	4060416	Supply of 250mm dia, NP 2 class Hume pipe.	M	1		
288	4060417	Supply of HDPE Duct-40mm	M	25786		
289	4060418	Supply of Optical Fiber Cable	M	600		
290	4060419	Supply of Rubber Mat 1000 mm wide (5 mtr. Length)	EA	1		
291	4060420	Supply of Galvanized Tower/Gantry structure	KG	1		
292	4060421	Supply of Galvanized Nut & Bolts	KG	890		
293	4060422	Supply of Copper Bus Bar of various size	KG	1		
294	4060423	Supply of warning tape per BSES Design specification (Width=150mm, Thickness=0.3u)	M	33134.9		
295	4060424	Transportation of various material like 40 mm dia Rod 12-15 mtrs long by 25 T trailer from store/any site in Delhi to site of work in Delhi inclding loading and unloading at both ends manually.(Considering max lead of 50KM)	TRP	2		
296	4060425	Transportation of electrical equipment I.e.CB,CT,PT,ISOLATORS,LA,CABLE DRUMS etc. from store/any site in Delhi to site of work in Delhi inclding loading and unloading at both ends by using T & P such as Tripod/cranes etc.(Considering max lead of 50KM)	TRP	293		
297	4060426	Transportation of electrical equipment from store/any site in Delhi to site of work in Delhi inclding loading and unloading at both ends manually.(Considering max lead of 50KM)	TRP	179		
298	4060427	Transportation of Empty cable drum from site to site or from site to store any where in Union territory of Delhi.	TRP	215		
299	4060428	Loading/unloading and transportation of 110 lbs 42' MS rail from store to site or from site to site. Beyond one km. to 5 km.	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
300	4060429	Loading/unloading and transportation of 110 lbs 42' MS rail from store to site or from site to site. Beyond 5 kms.	EA	12		
301	4060430	Watch & Ward Charges.	DAY	1925		
302	4060000	Charges for carrying out Route survey and identification of underground utilities of various civic agencies before/ during execution of scheme involving cable laying work. Route length will be considered for payment. Route length will be specifically verified by DGM.	M	157963		
303	4060431	Supply of PVC Tie having Length=750mm,Width=9mm & Thickness=2.1mm for fastening of 66 KV,1x630/1000 sq.mm.XLPE Cable.	EA	1		
304	4060432	<p>Testing of 66KV Line CRP (for 66 KV Line Bay)</p> <p>a. Testing of all the Indications from Yard or CB in case of I/D panel.</p> <p>b. Checking of all Interlock Schemes and Inter Panel wirings.</p> <p>i Inter locks in O/D Yard</p> <p>b.a 89A to 89B</p> <p>b.b 89A,89B to 89E1</p> <p>b.c 89L and 89E2</p> <p>b.d CB to ES1 & ES2</p> <p>b.e CB to 89A/89B,89L</p> <p>ii Inter Locks in I/D 33KV Panels</p> <p>b.a I/C 1 to I/C 2 to Bus Coupler</p> <p>iii Inter panel DC wiring</p> <p>iv Inter Panel AC wiring</p> <p>v Inter Panel PT wiring if Required</p> <p>vi Inter Panel LBB wiring of 96 relay if required in Scheme</p> <p>c. Testing of Breaker Closing and Tripping</p> <p>d. Testing of Trip Circuit Supervision,both Pre Close and Post Close.</p> <p>e. Testing of 89A,89B,89L Open/Close Operation with TNC from CRP,in case of Motor Driven Isol.</p>	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		f. Checking Semaphore Indications of Earth Isolatoes. g. Checking PT Selection Scheme in CRP. h. Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP. i. Setting of MFM				
305	4060433	Secondary Injection Testing of Relays (66KV Line Bay) a. Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature. iii Testing of Direction Feature (Optional) iv Testing of Programmable LED's v Testing of I/O's b. Testing of Distance Relay i. Testing of all Zones with Operation Direction for Ph to Ph and Ph to Earth. ii. Testing of Power Swing Blocking c. Line Differantial i. Pick up from Both ends ii. Slope Char Test. iii. Inter Trip	EA	1		
306	4060434	CT Testing w/o Tan delta (66KV Line Bay)) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test f. Connection Verfication of metering and Protection Circuit	EA	1		
307	4060435	CT Testing with Tan delta (66KV Line Bay) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test, Tan Delta	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		f. Connection Verification of metering and Protection Circuit				
308	4060436	Circuit Breaker Test w/o Gas Pressure Inspection (66KV Line Bay) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	1		
309	4060437	Circuit Breaker Test with Gas Pressure Inspection (66KV Line Bay) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection for SF6 Breaker d. Check Local Remote operation e. Check Breaker Trouble Indication	EA	1		
310	4060438	Volatge Trasformer/ CVT (66KV Line Bay) a. Ratio Test using Loading Trasformer b. Winding Resitance c. Connection Verification of metering and Protection Circuit	EA	1		
311	4060439	Isolater Test (66KV Line Bay) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	1		
312	4060440	Line/Cable Hipot Test including rest of the Bay Eqpts. (66KV Line Bay)	EA	1		
313	4060441	66KV B/C CRP (66 KV Bus Coupler) a. Testing of all the Indications from Yard or CB in case of I/D panel. b. Checking of all Interlock Schemes and Inter Panel wirings. i Inter locks in O/D Yard b.a 89A to 89B b.b 89A,89B to 89E1,89E2,89E3,89E4 b.d CB to ES1 ,ES2,E3 & E4 b.e 89E1/89E4 to 89A/B of all Bays ii Inter Locks in I/D 33KV Panels	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		b.a I/C 1 to I/C 2 to Bus Coupler iii Inter panel DC wiring iv Inter Panel AC wiring v PT wiring of Both Bus PT's vi Inter Panel LBB wiring of 96 relay if required in Scheme c. Testing of Breaker Closing and Tripping d. Testing of Trip Circuit Supervision,both Pre Close and Post Close. e. Testing of 89A,89B,89L Open/Close Operation with TNC from CRP,in case of Motor Driven Isol. f. Checking Semaphore Indications of Earth Isolatoes. g. Checking PT Selection Scheme in CRP. h. Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP. i. Setting of MFM				
314	4060442	Secondary Injection Testing of Relays (66 KV Bus Coupler) a. Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature. iii. Testing of Programmable LED's	EA	1		
315	4060443	CT Testing w/o Tan delta (66 KV Bus Coupler) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test f. Connection Verfication of metering and Protection Circuit	EA	1		
316	4060444	CT Testing with Tan delta (66 KV Bus Coupler) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B)	Total C=A*B
					(Rs.)	(Rs.)
		d. Winding Resistance. e. IR Test, Tan Delta f. Connection Verification of metering and Protection Circuit				
317	4060445	Circuit Breaker Test w/o Gas Pressure Inspection (66 KV Bus Coupler) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	1		
318	4060446	Circuit Breaker Test with Gas Pressure Inspection (66 KV Bus Coupler) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection for SF6 Breaker d. Check Local Remote operation e. Check Breaker Trouble Indication	EA	1		
319	4060447	Bus Volatge Trasformer (66 KV Bus Coupler) a. Ratio Test using Loading Trasformer b. Winding Resitance c. Connection Verification of metering and Protection Circuit	EA	1		
320	4060448	Isolater Test (66 KV Bus Coupler) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	1		
321	4060449	PTR HV Side CRP (66KVPTRBay+LV Pnl) a. Testing of all the Indications from Yard or CB in case of I/D panel. b. Checking of all Interlock Schemes and Inter Panel wirings. i Inter locks in O/D Yard b.a 89A to 89B b.b 89A,89B to 89E1 b.c 89L and 89E2 b.d CB to ES1 & ES2 b.e CB to 89A/89B,89L	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		ii Inter Locks in I/D 33KV Panels b.a I/C 1 to I/C 2 to Bus Coupler iii Inter panel DC wiring iv Inter Panel AC wiring v Inter Panel PT wiring if Required vi Inter Panel LBB wiring of 96 relay if required in Scheme vii Wiring of RTCC Relay c. Testing of Breaker Closing and Tripping d. Testing of Trip Circuit Supervision,both Pre Close and Post Close. e. Testing of 89A,89B,89L Open/Close Operation with TNC from CRP,in case of Motor Driven Isol. f. Checking Semaphore Indications of Earth Isolatoes. g. Checking PT Selection Scheme in CRP. h. Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP. i. Setting of MFM				
322	4060450	Secondary Injection Testing of Relays (66KVPTRBay+LV Pnl) a. Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature. iii. Testing of Programmable LED's	EA	1		
323	4060451	CT Testing w/o Tan delta (66KVPTRBay+LV Pnl) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test f. Connection Verification of metering and Protection Circuit	EA	1		
324	4060452	CT Testing with Tan delta (66KVPTRBay+LV Pnl)	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test, Tan Delta f. Connection Verification of metering and Protection Circuit				
325	4060453	Circuit Breaker Test w/o Gas Pressure Inspection (66KVPTRBAY+LV Pnl) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	1		
326	4060454	Circuit Breaker Test with Gas Pressure Inspection (66KVPTRBAY+LV Pnl) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection for SF6 Breaker d. Check Local Remote operation e. Check Breaker Trouble Indication	EA	1		
327	4060455	Isolater Test (66KVPTRBAY+LV Pnl) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	1		
328	4060456	PTR Testing 66/11 KV PTR a. IR and PI b. Magnetic Balance and Current test. c. Turns Ratio Test. d. Winding Resistance Test. e. Vector Group. f. Tan Delta g. Single Phase Short Circuit h. Tap Changer Operation From RTCC i. NIFPS Connection and Operation Test. j. Body Protection/DC Logic. Bucholz Alarm and Trip Main Tank (Turn to service mode).	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		Main Tank PRV. SPRV. OTI Alarm and Trip. WTI Alarm and Trip. OSR Trip. OLTC PRV. All Resistance and Current Convertors O/P's functioning in Marshalling Box. WTI Ct's testing. Fan Testing in Manual and Auto mode. HV /LV Inter trip				
329	4060457	LV CRP's a. AC/DC Connections. b. All interpanel wiring if PT and Interlocks. c. Testing of all the Indications of CRP . d. Testing of Breaker Operation e. Testing of Relays with Secondary Injection Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature. iii Testing of Direction Feature (Optional) iv Testing of Programmable LED's v Testing of I/O's f. Testing of CT's with Primary Injection Method. i. Ratio Test by Primary Injection. ii. Polarity Test. iii. Knee Point Voltage iv. Connection Verification of metering and Protection Circuit g. Testing of VT's i. Ratio Test by Step up Trafo. ii. Connection Verification of metering and Protection Circuit iii. Testing of PT selection Scheme. h. At Last before Charging Carry out Stability test & During this test Check current in WTI CT also.	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
330	4060458	<p>Cap Bank CRP</p> <p>a. Testing of all the Indications from Yard or CB in case of I/D panel.</p> <p>b. Checking of all Interlock Schemes and Inter Panel wirings.</p> <p>c. Testing of Breaker Closing and Tripping,Check for Time delay in Closing circuit of Cap Bank.</p> <p>d. Testing of Trip Circuit Supervision,both Pre Close and Post Close.</p> <p>e. Checking PT Selection Scheme in CRP.</p> <p>f. Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP.</p>	EA	1		
331	4060459	<p>Secondary Injection Testing of Relays (capacitor bank bay)</p> <p>a. Testing of Earthfault and Overcurrent Relays</p> <p>i Testing of IDMT Char.</p> <p>ii Testing of DMT Feature.</p> <p>iii Testing of Direction Feature (Optional)</p> <p>iv Testing of Programmable LED's</p> <p>v Testing of I/O's</p> <p>b. Testing of OverVoltage and Under Voltage</p> <p>i. Pickup and Drop Down Test</p> <p>ii. Time Test</p> <p>c. Neutral Displacement Test</p> <p>i. Pick up and time test</p>	EA	1		
332	4060460	<p>CT Testing w/o Tan delta (capacitor bank bay)</p> <p>a. Ratio Test by Primary Injection.</p> <p>b. Polarity Test.</p> <p>c. Knee Point Voltage</p> <p>d. Winding Resistance.</p> <p>e. IR Test</p> <p>f. Connection Verification of metering and Protection Circuit</p>	EA	1		
333	4060461	CT Testing with Tan delta (capacitor bank bay)	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test, Tan Delta f. Connection Verification of metering and Protection Circuit				
334	4060462	Circuit Breaker Test w/o Gas Pressure Inspection (capacitor bank bay) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	1		
335	4060463	Circuit Breaker Test with Gas Pressure Inspection (capacitor bank bay) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection for SF6 Breaker d. Check Local Remote operation e. Check Breaker Trouble Indication	EA	1		
336	4060464	Volatge Trasformer/ CVT (capacitor bank bay) a. Ratio Test using Loading Trasformer b. Winding Resitance c. Connection Verification of metering and Protection Circuit	EA	1		
337	4060465	Isolater Test (capacitor bank bay) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	1		
338	4060466	Stabilty Test of the Banks of Cap. (cap bank bay)	EA	1		
339	4060467	1 VT Testing(Ratio,IR,Connections,PT Selction Scheme) 2 Sec Injection Testing (O/V,U/V Pickup and Time delay) 3 Checking of Inter locks as per scheme	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B)	Total C=A*B
					(Rs.)	(Rs.)
		4 Check all Interpanel Wirings as per Scheme.				
340	4060468	Testing of 66 KV LA 10KA	EA	1		
341	4060469	33KV Line CRP (33KV Line Bay) a. Testing of all the Indications from Yard or CB in case of I/D panel. b. Checking of all Interlock Schemes and Inter Panel wirings. i Inter locks in O/D Yard b.a 89A to 89B b.b 89A,89B to 89E1 b.c 89L and 89E2 b.d CB to ES1 & ES2 b.e CB to 89A/89B,89L ii Inter Locks in I/D 33KV Panels b.a I/C 1 to I/C 2 to Bus Coupler iii Inter panel DC wiring iv Inter Panel AC wiring v Inter Panel PT wiring if Required vi Inter Panel LBB wiring of 96 relay if required in Scheme c. Testing of Breaker Closing and Tripping d. Testing of Trip Circuit Supervision,both Pre Close and Post Close. e. Testing of 89A,89B,89L Open/Close Operation with TNC from CRP,in case of Motor Driven Isol. f. Checking Semaphore Indications of Earth Isolatoes. g. Checking PT Selection Scheme in CRP. h. Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP. i. Setting of MFM	EA	4		
342	4060470	Secondary Injection Testing of Relays (33KV Line Bay) a. Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature.	EA	4		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		iii Testing of Direction Feature (Optional) iv Testing of Programmable LED's v Testing of I/O's b. Testing of Distance Relay i. Testing of all Zones with Operation Direction for Ph to Ph and Ph to Earth. ii. Testing of Power Swing Blocking c. Line Differential i. Pick up from Both ends ii. Slope Char Test. iii. Inter Trip				
343	4060471	CT Testing w/o Tan delta (33KV Line Bay) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test f. Connection Verification of metering and Protection Circuit	EA	12		
344	4060472	CT Testing with Tan delta (33KV Line Bay) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test, Tan Delta f. Connection Verification of metering and Protection Circuit	EA	1		
345	4060473	Circuit Breaker Test w/o Gas Pressure Inspection (33KV Line Bay) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	4		
346	4060474	Circuit Breaker Test with Gas Pressure Inspection (33KV Line Bay) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection for SF6 Breaker	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		d. Check Local Remote operation e. Check Breaker Trouble Indication				
347	4060475	Volatge Trasformer/ CVT (33KV Line Bay) a. Ratio Test using Loading Trasformer b. Winding Resitance c. Connection Verfication of metering and Protection Circuit	EA	6		
348	4060476	Isolater Test (33KV Line Bay) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	12		
349	4060477	Line/Cable Hipot Test including rest of the Bay Eqpts. (33KV Line Bay)	EA	8		
350	4060478	33 KV B/C. CRP (33 KV Bus Coupler) a. Testing of all the Indications from Yard or CB in case of I/D panel. b. Checking of all Interlock Schemes and Inter Panel wirings. i Inter locks in O/D Yard ii Inter Locks in I/D 33KV Panels iii Inter panel DC wiring iv Inter Panel AC wiring v Inter Panel PT wiring if Required vi Inter Panel LBB wiring of 96 relay if required in Scheme c. Testing of Breaker Closing and Tripping d. Testing of Trip Circuit Supervision,both Pre Close and Post Close. e. Checking Semaphore Indications of Earth Isolatores. f. Checking PT Selection Scheme in CRP. g Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP. h Setting of MFM	EA	1		
351	4060479	Secondary Injection Testing of Relays(50&51N) (33 KV Bus Coupler)	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		a. Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature. iii Testing of Direction Feature (Optional) iv Testing of Programmable LED's v Testing of I/O's				
352	4060480	CT Testing w/o Tan delta (33 KV Bus Coupler) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test f. Connection Verification of metering and Protection Circuit	EA	1		
353	4060481	CT Testing with Tan delta (33 KV Bus Coupler) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test, Tan Delta f. Connection Verification of metering and Protection Circuit	EA	1		
354	4060482	Circuit Breaker Test w/o Gas Pressure Inspection (33 KV Bus Coupler) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	1		
355	4060483	Circuit Breaker Test with Gas Pressure Inspection (33 KV Bus Coupler) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection if SF6 Breaker d. Check Local Remote operation e. Check Breaker Trouble Indication	EA	1		
356	4060484	Volatge Trasformer/ CVT (33 KV Bus Coupler) a. Ratio Test using Loading Trasformer	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		b. Winding Resitance c. Connection Verfication of metering and Protection Circuit				
357	4060485	Isolater Test (33 KV Bus Coupler) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	1		
358	4060486	PTR HV Side CRP (33/11 KV PTR) & I/C from 66/33 KV PTR. (33 KV PTR BAY) a. Testing of all the Indications from Yard or CB in case of I/D panel. b. Checking of all Interlock Schemes and Inter Panel wirings. i Inter Locks in I/D 33KV Panels ii I/C 1 to Bus Coupler iii Inter panel DC wiring iv Inter Panel AC wiring v Inter Panel PT wiring if Required vi Inter Panel LBB wiring of 96 relay if required in Scheme vii Wiring of RTCC Relay c. Testing of Breaker Closing and Tripping d. Testing of Trip Circuit Supervision,both Pre Close and Post Close. e. Checking Semaphore Indications of Earth Isolatores. f. Checking PT Selection Scheme in CRP. g. Checking Locking,Connections,Termination,Lamp,Space Heater etc of CRP. h. Setting of MFM	EA	1		
359	4060487	Secondary Injection Testing of Relays (33 KV PTR BAY) a. Testing of Earthfault and Overcurrent Relays i Testing of IDMT Char. ii Testing of DMT Feature.	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
		iii Testing of Direction Feature (Optional) iv Testing of Programmable LED's v Testing of I/O's b. Testing of Distance Relay i. Testing of all Zones with Operation Direction for Ph to Ph and Ph to Earth. ii. Testing of Power Swing Blocking c. Line Differential i. Pick up from Both ends ii. Slope Char Test. iii. Inter Trip				
360	4060488	CT Testing w/o Tan delta (33 KV PTR BAY) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test f. Connection Verification of metering and Protection Circuit	EA	1		
361	4060489	CT Testing with Tan delta (33 KV PTR BAY) a. Ratio Test by Primary Injection. b. Polarity Test. c. Knee Point Voltage d. Winding Resistance. e. IR Test, Tan Delta f. Connection Verification of metering and Protection Circuit	EA	1		
362	4060490	Circuit Breaker Test w/o Gas Pressure Inspection (33 KV PTR BAY) a. Time Interval b. Contact Resistance c Check Local Remote operation d. Check Breaker Trouble Indication	EA	1		
363	4060491	Circuit Breaker Test with Gas Pressure Inspection (33 KV PTR BAY) a. Time Interval b. Contact Resistance c. Gas Pressure Inspection if SF6 Breaker	EA	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B)	Total C=A*B
					(Rs.)	(Rs.)
		d. Check Local Remote operation e. Check Breaker Trouble Indication				
364	4060492	Isolater Test (33 KV PTR BAY) a. Contact Resistance b. Check Local Remote operation c. Check all indications d. Check Electrical and Mech. Inter locks	EA	1		
365	4060493	PTR Testing (33/11KV PTR) a. IR and PI b. Magnetic Balance and Current test. c. Turns Ratio Test. d. Winding Resistance Test. e. Vector Group. f. Tan Delta g. Single Phase Short Circuit h. Tap Changer Operation From RTCC i. NIFPS Connection and Operation Test. j. Body Protection/DC Logic. Bucholz Alarm and Trip Main Tank (Turn to service mode). Main Tank PRV. SPRV. OTI Alarm and Trip. WTI Alarm and Trip. OSR Trip. OLTC PRV. All Resistance and Current Convertors O/P's functioning in Marshalling Box. WTI Ct's testing. Fan Testing in Manual and Auto mode. HV /LV Inter trip	EA	1		
366	4060494	1 VT Testing(Ratio,IR,Connections,PT Sclction Scheme) 2 Sec Injection Testing (O/V,U/V Pickup and Time delay) 3 Checking of Inter locks as per scheme 4 Check all Interpanel Wirings as per Scheme.	EA	1		
367	4060495	Testing of 33 KV LA 10KA	EA	27		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
368	4060496	a. AC/DC Connections. (11 KV VCB) b. All interpanel wiring if PT and Interlocks. c. Testing of all the Indications of CRP . d. Testing of Breaker Operation e. Testing of Relays with Secondary Injection	EA	1		
369	4060497	Testing of Earthfault and Overcurrent Relays(50 & 51N) (11 KV VCB) i Testing of IDMT Char. ii Testing of DMT Feature. iii Testing of Direction Feature (Optional) iv Testing of Programmable LED's v Testing of I/O's	EA	1		
370	4060498	Testing of CT's with Primary Injection Method. (11 KV VCB) i. Ratio Test by Primary Injection. ii. Polarity Test. iii. Knee Point Voltage iv. Connection Verification of metering and Protection Circuit	EA	1		
371	4060499	Testing of VT's (11 KV VCB) i. Ratio Test by Step up Trafo. ii. Connection Verification of metering and Protection Circuit iii. Testing of PT selection Scheme.	EA	1		
372	4060600	Dismantling of 11 kV C&R Panel. The work includes disconnection& isolation of control cable from both ends , dismantling of grouting bolts and Earthing Strip.	EA	1		
373	4060601	Dismantling of RTCC panel. The work includes disconnection & isolation of control cable from both ends , dismantling of grouting bolts and Earthing Strip.	EA	1		
374	4060602	Removal of dismantled control cables from trench, making the same in coil form and proper stacking of the same - All size	M	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
375	4060603	Identification of cable and Puncturing of the identified cable at the time of shut down(Shut down shall be arranged by BYPL). The work includes providing of skilled man who will identify the cable and will ensure to get it punctured at the time of shut down. Necessary T&P such as heater, Clip on meter and cable puncturing equipment etc shall be provided by the contractor. -----66 KV cable	EA	123		
376	4060604	Identification of cable and Puncturing of the identified cable at the time of shut down(Shut down shall be arranged by BYPL). The work includes providing of skilled man who will identify the cable and will ensure to get it punctured at the time of shut down. Necessary T&P such as heater, Clip on meter and cable puncturing equipment etc shall be provided by the contractor -----33 KV cable	EA	55.2		
377	4060605	Identification of cable and Puncturing of the identified cable at the time of shut down(Shut down shall be arranged by BYPL). The work includes providing of skilled man who will identify the cable and will ensure to get it punctured at the time of shut down. Necessary T&P such as heater, Clip on meter and cable puncturing equipment etc shall be provided by the contractor -----11 KV cable	EA	144		
378	4060606	Phasing of cables before commissioning. The work includes disconnection/reconnection of cable for matching the phase sequence of cables including providing skilled workmen at both ends. For 66KV/33KV/11KV cables	Per ckt.	249		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
379	4060607	Terminal inter Connections of control cable for 66 KV PTR Bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done from C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	1		
380	4060608	Terminal inter Connections of control cable for 66 KV feeder bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done from C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
381	4060609	Terminal inter Connections of control cable for 66 KV Capacitor bank bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done from C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	1		
382	4060610	Terminal inter Connections of control cable for 66 KV B/C bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done from C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
383	4060611	Terminal inter Connections of control cable for 33 KV PTR Bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done in C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	2		
384	4060612	Terminal inter Connections of control cable for 33 KV feeder bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done in C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	4		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
385	4060613	Terminal inter Connections of control cable for 33 KV Capacitor bank bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done in C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	1		
386	4060614	Terminal inter Connections of control cable for 33 KV B/C bay as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done in C&R panels/Eberlley relay/switchgear/terminal kiosk/Marshelling box. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor	Per bay	1		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
387	4060615	Terminal inter Connections of control cable as per the drawing submitted by OEMs. The work includes supply of numbering ferrules ,connectors as per the coding provided in the wiring drawing. The connection is to be done in C&R panels/switchgear. After completion of connection work necessary support be provided to BYPL SCADA and protection team for testing of the equipments making them ready for commissioning. After commissioning control cable schedule be provided by the vendor. For 11 KV I/C, O/G, B/C & Capacitor panel.	Per Panel	1		
388	4060616	Dismantling/ Reclaiming and de-termination of HV cables from dugged out trench and re-rolling the cable on the drum or in the shape of coil and transportation to store site/tent site --- 66 kV, 1CX1000/1CX630 sqmm XLPE cable	M	1		
389	4060617	Painting of nomenclature of size(s) as reqd. on power transformer/Breakers/Capacitor bank/Battery Bank/CRP/Panels etc. including supply of paint ----- rates are per alphabet.	EA	3024		
390	4060618	Providing Auto Cad cable route drawing after completion/commissioning of work. The cable laying drawing should mark the position(distance from nala/building/main carriage way of cable). The position of cable after each 100 mts of length and position of straight through/outdoor/Indoor joints to be marked. -----up to 1 Km for 66 KV cable/33 Kv cable /11 KV cable.	Route length upto 1 Km.	16.205		
391	4060619	Providing Auto Cad cable route drawing after completion/commissioning of work. The cable laying drawing should mark the position(distance from nala/building/main carriage way of cable). The position of cable after each 100 mts of length and position of straight through/outdoor/Indoor joints to be marked. -----above 1 Km for 66 KV cable/33 Kv cable /11 KV cable.	KM	9.8		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
392	4060620	Erection of ground earthing with 100 mm dia, 12 mtr long, GI Pipe electrode, fabrication and fixing of clamps, test links. funnel.	EA	1		
393	4060621	Erection of ground earthing with 100 mm dia, 9 mtr long, GI Pipe electrode, fabrication and fixing of clamps, test links, funnel.	EA	1		
394	4060622	Crossing of roads by trench-less technology with out laying of HDPE pipe excluding supply of pipe . By Laying by HDD Machine for 200mm dia pipe.	M	1		
395	4060623	Shifting (Dismantling and re fixing) of existing old fencing from one place to another place including modification needed at new location	SQM	141		
396	4060624	Dismantling of masonry plinth of DTRS, RMUs etc and removal of surplus mulba from site	CUM	1.3		
397	4060625	Providing testing instruments, vehicle and skilled manpower during inspection by the electrical inspector. The work includes operation of electrical equipments as per the requirements/satisfaction of electrical inspector for obtaining the EIC Certificate. For Power Transformer.	EA	1		
398	4060626	Providing testing instruments, vehicle and skilled manpower during inspection by the electrical inspector. The work includes operation of electrical equipments as per the requirements/satisfaction of electrical inspector for obtaining the EIC Certificate. For 66/33 Kv Breaker & Isolator.	EA	4		
399	4060627	Providing testing instruments, vehicle and skilled manpower during inspection by the electrical inspector. The work includes operation of electrical equipments as per the requirements/satisfaction of electrical inspector for obtaining the EIC Certificate. For EHV Cables.	Per KM	53.749		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
400	4060628	Providing testing instruments, vehicle and skilled manpower during inspection by the electrical inspector. The work includes operation of electrical equipments as per the requirements/satisfaction of electrical inspector for obtaining the EIC Certificate. For 66/33 KV Bay.	Per Bay	1		
401	4060629	Charges for providing tent, lighting arrangement and labour for supporting the jointer for making the 11/33/66 kv St.through/end termination box	EA	1150		
402	4060630	Digging of cable trench with the help of tractor hammer cutting where digging through standard tools like pickaxe and spade is not possible. The work includes demolishing cement concrete manually/ by mechanical means including disposal of material within 50 meters lead as per direction of Engineer - in Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	CUM	3750.9		
403	4060631	Making the hole in RCC Wall with the help of tractor hammer cutting where digging through standard tools like pickaxe and spade is not possible.	SQM	31		
404	4060632	Assembling of isolators parts to make it feasible for commissioning for 66 kv isolator without earth	EA	1		
405	4060633	Assembling of isolators parts to make it feasible for commissioning for 66 kv isolator with earth	EA	1		
406	4060634	Assembling of isolators parts to make it feasible for commissioning for 33 kv isolator without earth	EA	8		
407	4060635	Assembling of isolators parts to make it feasible for commissioning for 33 kv isolator with earth	EA	4		

S.N.	service Code	Description	UoM	Estimated Qty. (A)	Unit rate (e/x GST@18%)(B) (Rs.)	Total C=A*B (Rs.)
408	4060636	Erection testing and commissioning of electrical equipment Including supply of T & P, all consumable items such as welding rods, hacksaw blades etc and minor modification in support structure for fixing as required-For AC distribution Board.	EA	1		
					Total	
		-			GST@18%	
					Grand Total	

Please Note – Reverse auction will be held on total of Part A & Part B (i/c GST) Amount seperately.

NOTE:

- Prices quoted above shall remain firm for entire duration of the contract from the date of award of contract.
- The bidder shall quote the prices strictly in the above format/item description / content. The bid shall be liable for rejection, if contractor fail to do so. If at any stage, the content is found to be changed from the given price format, the content as per the given price format will prevail and binding on the contractor

The bidder needs to quote for all the line items as mentioned above; failing which the bids are liable for rejection.

ANNEXURE –I : BID FORM

To,

**Head of Department,
Contracts & Material Department,
BSES YAMUNA Power Ltd,
IIIrd Floor, A Block,
Shakti Kiran Building, Karkardooma,
Delhi 110032.**

Dear Sir,

- 1 We understand that BYPL is desirous of awarding the contract for..... (Name of the Work) work in its licensed distribution network area in Delhi.
- 2 Having examined the Tender Documents for the above named works, we the undersigned, offer to deliver the goods/services in full conformity with the Terms and Conditions, technical specifications & Scope of Work as may be determined in accordance with the terms and conditions of the contract. The quoted amounts for this work are in accordance with the Price Schedules attached herewith and are made part of this bid.
- 3 If our Bid is accepted, we undertake to deliver the entire goods/services as per delivery/ completion schedule mentioned in Section III from the date of award of order/letter of intent.
- 4 If our Bid is accepted, we will furnish a Contract Cum Performance Bank Guarantee (CPBG) for due performance of the Contract in accordance with the Terms and Conditions of the NIT.
- 5 We agree to abide by this Bid for a period of 180 days from the due date of bid submission and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- 6 We declare that we are aware of the provision of all Laws associated with the supply of equipment's/materials or Services and the prices have been quoted accordingly.
- 7 Unless and until Letter of Intent is issued, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
- 8 We understand that BYPL is not bound to accept the lowest, or any bid BYPL may receive.
- 9 There is provision for Resolution of Disputes under this Contract, in accordance with the Laws and Jurisdiction of Contract.
- 10 We do hereby agree and shall abide the terms of tender documents/agreement, in full

Dated this..... day of..... 2025

Signature..... In the capacity of

.....duly authorized to sign for and on behalf of

(IN BLOCK CAPITALS)

ANNEXURE – II : BIDDER’S DETAILS

S.No.	Item	Description
1	Company Name	
2	BYPL Vendor Code (If Registered)	
3	Area of Specialization	
4	Company Founded Year	
5	Type of Company	
6	Constitution(Company Registration number)	
7	Name of Director / Mobile Number	
8	Name of other main person / Mobile Number	
9	Vendor Address	
10	Vendor Contact no	
11	Vendor Email ID	
12	No. of Manpower on payroll (Executive/Skilled/Semi-Skilled/Un-skilled)	
13	No. of Contractual Manpower (Executive/Skilled/Semi-Skilled/Un-skilled)	
14	Other Office / Factory Address	
15	ISO certification	
16	PAN	
17	PF/ESI	
18	Shop Establishment Certificate (If Applicable)	
19	Electrical License Detail (If Applicable)	
20	GST	
21	GST Registration Date	
22	SSI	
23	MSME Registration Number (If Applicable)	
24	Turn Over FY 2020-21 (Rs. Cr.)	
25	Turn Over FY 2021-22 (Rs. Cr.)	

S.No.	Item	Description
26	Turn Over FY 2022-23 (Rs. Cr.)	
27	Turn Over FY 2023-24 (Rs. Cr.)	
28	Profit after Tax FY 2020-21 (Rs. Cr.)	
29	Profit after Tax FY 2021-22 (Rs. Cr.)	
30	Profit after Tax FY 2022-23 (Rs. Cr.)	
31	Profit after Tax FY 2023-24 (Rs. Cr.)	
32	Networth (Rs Cr.)	
33	Bank Guarantee Limit (in Cr.)	
34	Over Draft/Cash Credit Limit (in Cr.)	
35	Present Order Booking (Rs Cr.)	
36	Order executed with Reliance ADA (Rs Cr.)	
37	Name & Detail of relative working in BYPL	
38	Main Customer	
39	Details of orders executed / Under Execution	Please submit the details in Attachment - A

ATTACHMENT – A

Reference List of Order Executed / under Execution by the Vendor (M/s)

A) Major Orders Executed

SN	Name of Project	Client name & address	Client contact Detail (Person name, e-mail ID, Mobile & landline number)	Vendor's Scope of Work	Date Of Award	Value of Work (Rs in Lakhs)	Completion date as per Order	Actual Completion Date	LD / Penalty imposed, if any (Rs in Lakhs)	Litigation / Arbitration (Y/N) (If Yes, furnish details)	Remarks
1.											
2.											

3.											
4.											
5.											

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B) Orders Under Execution

<u>SN</u>	<u>Name of Project</u>	<u>Client name & address</u>	<u>Client contact Detail</u> (<u>Person name,</u> <u>e-mail ID,</u> <u>Mobile & landline number</u>)	<u>Vendor's Scope of Work</u>	<u>Date Of Award</u>	<u>Value of Work (Rs in Lakhs)</u>	<u>Completion date as per Order</u>	<u>Actual Completion Date</u>	<u>LD / Penalty imposed, if any (Rs in Lakhs)</u>	<u>Litigation / Arbitration (Y/N) (If Yes, furnish details)</u>	<u>Remarks</u>
1.											
2.											
3.											
4.											
5.											

ANNEXURE – III
ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT
(To be signed and stamped by the bidder prior to participation in the auction event)

BYPL intends to use the reverse auction through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are found as techno commercially qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are deemed as accepted by the bidder on participation in the bid event:

1. BYPL shall provide the user id and password to the authorized representative of the bidder. (Authorization letter in lieu of the same be submitted along with the signed and stamped acceptance form)
2. BYPL will make every effort to make the bid process transparent. However, the award decision by BYPL would be final and binding on the supplier/Contractor.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of BYPL, bid process, bid technology, bid documentation and bid details.
4. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the auction event.
5. In case of bidding through internet medium, bidders are further advised to ensure availability of the entire infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs; power failure or any other reason shall not be the responsibility of BYPL.
6. In case of intranet medium, BYPL shall provide the infrastructure to bidders, further, BYPL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case of an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out rightly rejected by BYPL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at BYPL site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder. No further communication will be there.
11. No requests for time extension of the auction event shall be considered by BYPL.

12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all-inclusive prices offered during conclusion of the auction event for arriving at contract amount.

For.....

Signature:

Name:

Designation:

ANNEXURE – IV:

ENVIRONMENTAL, OCCUPATIONAL HEALTH & SAFETY CONDITIONS OF CONTRACT

1.0 General Requirements

- 1.1 The contractor shall ensure that safety of all the workers, materials, Installation and equipment's belonging to him or to others and working at the site is ensured through effective and practicable safety management systems.
- 1.2 The contractor shall be responsible for compliance to provisions of all safety requirements under various notices, acts, rules and relevant applicable legislations.
- 1.3 The contractors shall comply with all health & safety requirements as deemed necessary by BYPL from time to time.
- 1.4 Works shall be carried out by the contractor after taking necessary "Permit to work". Also the work shall not be carried out without use of Protectiveequipment's like shoes, safety belts, helmets etc. adhering to safety compliance.
- 1.5 All the equipment's being used shall be timely calibrated and a copy of the same shall be submitted to Safety Department within 4 weeks of the acceptance of contract and thereafter on every renewal.

2.0 EHS Policy

The contractor as per requirement of CEA Measures Relating to Safety and Electric Supply Regulations, 2010 shall follow the Environment, Health & Safety policy of BYPL. The contractor shall implement quality, health & safety management systems in accordance to BYPL EHS policy and ensure that intentions of such policy are met.

3.0 Health & Safety Plan

- 3.1 Within 4 weeks of the notification of acceptance of the tender, the contractor shall submit a detailed and comprehensive Contract specific health & safety plan incorporating HIRA (Hazard Identification & Risk Analysis) to BYPL. This plan shall necessarily include detailed policies, procedures, method statement for each activity to be performed and regulations which, when implemented, will ensure compliance of the contract provisions stated herewith.
- 3.2 The contractor shall submit health & safety plan for such activities required to be carried out under the awarded contract as deemed necessary by BYPL.
- 3.3 Health & safety plans, procedures, method statements, etc. developed & submitted by contractors shall be reviewed and approved by designated authorities of BYPL (Head Safety). First cut of the plan shall be submitted to Safety Department within 2 weeks of agreement of contract. After suggested rectification, the final plan shall be submitted to Head Safety not later than 4 weeks of the agreement of contract. A copy of the same shall be given to the engineer in charge also. The document shall carry the signatures of the authorized signatory (the person who has signed the agreement document of contract).
- 3.4 The health & safety plans, procedures, method statements, etc. shall not be changed without prior review and approval by designated authorities of BYPL.

4.0 OHS Organization & Responsibility

- 4.1 The contractor supervisor will play the role of safety supervisor. The safety supervisor shall hold a diploma degree from a recognized institute or university as per CEA Regulations, 2010. Also simultaneously contractor has to ensure their competency in safety or EHS with 40 hours training from reputed agency (like RLI/Allied Boston/ National Safety Council) or trainer, which should be verified earlier by BYPL safety department accordingly. The copy of training certificate shall be submitted to Safety Department within 4 weeks of agreement of contract. Time extension may be given in extraordinary situation subjected to submission of any convincing document carrying valid proof of near future plan of the training.
- 4.2 The training certificate should not be more than one-year-old.
- 4.3 Apart from above, as an owner of the company the contractor & their other key persons are also responsible for safety compliance and related issues.

5.0 First Day at Work –Induction Training and Issuance of ID-Card

- 5.1 The contractor shall ensure that all his workers have undergone the safety induction and have been issued with a valid ID card prior to start work at BYPL site. The proof of the same shall be submitted to Safety Department within 4 weeks of agreement of contract.
- 5.2 All contractor workers shall undergo above as per the BYPL site specific procedure issued from time to time.
- 5.3 The contractor shall ensure that no worker is in any O&M activities until the valid ID card is issued and the same is available by each worker at site including that of sub-contractor(s).
- 5.4 In case any worker lost the ID card issued to him, the contractor shall ensure that such incidences are promptly reported to BYPL and duplicate or new ID card is issued immediately after completing formalities as deemed necessary by BYPL.

6.0 Provision of Safe Working Conditions

- 6.1 Proper barricading shall be created during height work, cable laying work, working on pole, etc. Dimensions of barricading while cable laying work- Height- 2 mtr, Length- 1.5 mtr. There shall not be any gap in between two barricades. LED Bacon light shall be placed at 1st and every 4th barricade. However, while working on pole during supply maintenance work there should be a barricading cone and caution tape. In narrow lanes, where proper barricading as per rules is not possible, use barricading as per the approval of respective safety circle head in writing and copy forwarded to safety and uploading in QMS.

6.2 PPE' Requirement

- 6.2.1 The contractor shall ensure all the required PPEs given in clause 6.2 and shall allow their workers to start work at site only after proper verification of adequacy of safety gears/PPE required for the specific job at site by the Safety personnel/Site Engineer of BYPL.

Contractor has to ensure the quantity and quality of PPEs during procurement and continuous usage of following PPE's by his staff.

S.NO.	NAME OF THE PPEs	LINEMAN / FITTER/SKILLED	HELPER/UNSKILLED	SUPERVISOR
1	SAFETY HELMET	✓	✓	✓
2	FULL BODY HARNESS (POSITIONING BELT)	✓	X	X
3	ELECTRICAL HAND GLOVES	✓	✓	X
4	SAFETY SHOES	✓	✓	✓
5	SAFETY GOGGLES	✓	✓	✓
6	REFLECTIVE JACKET	✓	✓	✓

6.2.2 Contractor has to ensure for proper procurement and distribution of required PPE's among their workers with receiving in attached format (Appendix-3) which will be verified by the safety department during inspection. The entire issuance format duly signed by individual worker and to be verified/ certified by Department Head and the same need to be submitted to Safety Department along with mentioned certificates within 4 weeks of agreement of contract. The sample of the PPE's being procured by the contractor shall be submitted and approved from the Safety Department beforehand.

6.2.3 The contractor has to provide 3 arc protection face shields in each zone (2 for complaint team and 1 for maintenance team) as per specifications mentioned in clause 6.2.5.6.

6.2.4 If any of the contractor staff found without PPEs, the said PPE's will be issued to them from BYPL store with immediate effect. And the 20% extra amount with procurement cost will be recovered from their next monthly bill cycle.

Note: PPEs shall strictly be as per the brand mentioned in clause 6.2.5

6.2.5 Technical Specification of the PPEs

6.2.5.1. Safety Shoes – With Composite / Fiber toes (CE approved / IS 15298) – Mandatory for all personnel working at BYPL O&M. The safety shoes shall meet the following features:

1. Electric Shock Resistant Sole
2. Impact Resistant
3. Scrap/Heat Resistant
4. Slip Resistant
5. Oil and Acid Resistant
6. Rubber PU Sole
7. Anti-puncture

Lead MAKE: BATA/HONEYWELL/KARAM

6.2.5.2 Safety Helmets: (IS 2925 - 1984 or DGMS) with chin strap – Mandatory for all personnel working at BYPL O&M. The specification of safety helmet shall be as given below:
V-GARD HDPE Yellow With 4 Point Fas Trac Ratchet Suspension

Shell Material	UV stabilized HDPE, Non vented
Suspension	<ul style="list-style-type: none"> • With 4 Point Fas Trac Ratchet Suspension sewn headband • Textile straps made from polyester Suspension • point fixing: good positioning, ...stability, better air circulation due to ...limited contact areas with the head • Easy clean sweatband
Size	52-62 cm
Accessory slot	Standard 30 mm with removable HDPE dead plugs suitable to leak proof fitting
Approvals	ANSI/ IEC Z89.1 Class E (electrical)
Additional	Low temperature -10°C (acc. to GB2811), High temperature +50°C
Colours	Yellow
weight	360 g

Lead MAKE: 3M / KARAM / UFS

6.2.5.3 Full Body positioning Harness: (CE approved / IS 3521 / EN 361 / EN 355) – Shall be used while work is in progress at height more than 1.8 meter or where from a person may fall and get injured. The specification of the Full body harness shall be as given below:

Anchorage	Adjustable two chest attachment D-rings and A dorsal attachment D-ring
Adaptability	Adjustable shoulder and thigh straps
Convenience	Shoulder and thigh straps differentiated by a dual color scheme.
Ergonomics	Ideally. Positioned sit strap for extended comfort.
Size	Standard
weight	1200GMS
ENERGY ABSORBING FORKED LANYARDS :	
Spec.	44mm wide polyamide webbing.
Length	1.5 Meter

There should not be any metallic part in the full body harness.

Lead MAKE: KARAM /LIFEGEAR/UFS/HONEYWELL

6.2.5.4 Flex Chem Full View Safety Goggles – Shall be used to protect workers eyes from foreign materials and flying particles. Mandatory for all personnel working at BYPL O&M. Safety goggles shall meet the following feature:

1. Acetate lens for special applications requiring superior chemical resistance.
2. Industrial version of tough and popular first responder goggles.
3. SoftFlex low profile frosted frame for increased comfort.
4. Comfortable headband with length adjustment.

5. Indirect venting for comfortable, long lasting wear can be worn with safety helmets and over prescription spectacles.
6. Sightgard + premium anti-fog coating (EN 166 “N”) with good anti- scratch properties.

Technical Specification:

Weight	95g.
Lens thickness	1.0mm
Overall width	173mm
Overall length	90mm
Bridge	47.6mm
Lens base	5.5 curve
Lens size	86.1mm verticle, 174mm diagonal
Headband	Adjustable length at max.440mm(long enough to fit together with helmets)
Material & colors	
Lens	Acetate clear, coating, Sightgard + anti-fog according to EN 166 “N” & anti scratch.
Body	PVC smoke
Headband holder	Nylon
Headband	Adjustable grey elastic fixed on frame side parts
Marking / Approvals	
Standard number	EN 166
Frame marking	MSA EN 166 34-FT CE
Lens marking	2C-1.2 MSA 1 FT N CE
Filter class	2C (Ultra violet radiation with enhanced color recognition)
Scale number	1.2: luminous trasmittance-89%
Optical class	1 (best class, for permanent wear)
Mechanical resistance	F (low energy impact 45m/s) T (at extreme temperature -5 to +55° C)
Resistance to	N(distorted vision due to lens fogging)
UV filter	99.9%
Ordering information	10145578-FlexiChem Sightgard + clear , 6x

Lead MAKE: MSA / UVEX/ UFS/3M/KARAM

6.2.5.5 Electrical Insulating Hand Gloves – Shall be used to prevent electric shock based upon the hazards/risks involved in a particular activity. Safety goggles shall meet the following features:

- Breakthrough manufacturing process for exception dry grip.
- Soft and flexible for enhanced tactility, high dexterity and wearer comfort.
- Ergonomic design featuring tapered fingers to reduce hand fatigue.
- Relaxed wrist for easy on/off.

	For LT work	For HT work
Length	360mm	360mm
Class	2	0
Thickness	3.6mm	1mm
Proof test voltage	20000	5000
Maximum use voltage	11000	1000
Tensile strength	>16mpa[Mega Pascal]	

Puncture resistance	>18N/mm [Newton per mili meter]
Elongation at break	>600% [Stretching length]
Tension set	<15%

- It should be resistant to oil, acid, ultra violet rays and very low temperature.
- Each pair of glove should be marked with class, category, month & year of manufacturing, CE logo, batch no. and certified laboratory no.
- EN certified to electrical and thermal hazards,
- EN certified to thermal & electrical hazards to confirm EN 60-903,
- EN certified to mechanical hazard to EN-388

Lead MAKE: Honeywell / ANSELL/CATU

6.2.5.6 Arc Protection Face Shield

- ATPV value is 10 cal/cm²
- It shall have a slotted hard hat and chin guard
- Visible light transmission (VLT) shall be 70%
- It should have anti fog lens
- It should have a provision for replacement of lens and brackets.
- It should cover the complete face and the complete neck region.
- It must not hinder the work. Must be comfortable for the height jobs as well as in the ground.
- Carry bag for the kit.

Lead MAKE: Oberon/Honeywell

6.2.5.7 Certificates required for all PPEs:

- Manufacturer Certificate
- Test Certificate
- Authorization of Dealership/Distribution ship

The copy of all the certificates shall be submitted to safety department within 4 weeks of agreement of contract.

7.0 Integrated Management System & Audits

- The Contractor shall work in the framework of Integrated Management System (IMS) and shall maintain documentation as prescribed in the IMS Manual of BYPL. IMS Manual can be obtained directly from site engineer/Division Head/Respective Head.
- All contractors during their currency of contract shall strive to continuously improve and demonstrate strict compliance to ISO 9001, 14001 & 45001 standards of BYPL.
- To verify compliance and to continually improve the management system, all contractors shall be subjected to both internal & external audits.

8.0 Medical Examination

- The contractor shall arrange a medical examination of all his employees including his sub-contractor employees like lineman, ALM, supervisor, Fitter, welders, gas cutters, drivers and all the workers supposed to work at height (and any other trade specified deemed

necessary by BYPL at the time of deployment then annually) before employing, after illness or injury, if it appears that the illness or injury might have affected his fitness and, thereafter, once in every year as per the provisions of applicable laws or as prescribed by BYPL with proper record.

- 8.2 Records of medical examination as described above shall be maintained at the contractor premises and a copy of the same shall be submitted to Safety Department within 4 weeks of agreement of contract.
- 8.3 No person about whom the Contractor knows or has reason to believe that he is a deaf or he has a defective vision or he has a tendency to giddiness shall be required or allowed to work in any O&M operation or other construction work which is likely to involve a risk of any accident either to the worker himself or to any other person.

9.0 Working at Height

- 9.1 The Contractor shall ensure that all works carried out at a height of 2 Meter or more shall only be started after obtaining a permit to work at height, which shall be issued as per the procedure of BYPL by authorized personnel.
- 9.2 The contractor shall ensure that all control measures mentioned and agreed through above work permit or as deemed necessary by BYPL are enforced and complied all the time during activities carried out at height.
- 9.3 Full body harness and ladder along with the required PPEs shall be used during height work.
- 9.4 Barricading cone and tape shall be used along with creation of proper safety zone.

10.0 Reporting of Near Miss/ Incidents / Dangerous Occurrences

- 10.1 In case of any incident/ accident occurs during the O&M activities undertaken by the Contractor thereby causing a dangerous occurrence or near miss or any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be sole responsibility of the Contractor to promptly inform the same to Department Head in prescribed form and also to all authorities envisaged under the applicable laws.

11.0 Suspension of Work

- 11.1 BYPL shall have the right at its sole discretion to suspend the work till compliance of safety norms, if in its opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and / or property, and / or equipments.
- 11.2 In such cases, the contractor shall be informed in writing about the nature of hazards and possible injury /accident and he shall comply to remove all shortcomings promptly. Decision of BYPL shall be conclusive and binding on the Contractor in such aspects.
- 11.3 The contractor shall not be entitled to damages / compensation for suspending of work due to safety reasons and the period of such stoppage of work will not be taken as an extension of time for completion of the facilities as per the work order and will not be the ground for waiver of levy of liquidated damages.
- 11.4 The contractor shall follow and comply with all safety Rules of BYPL, relevant provisions of applicable laws pertaining to the safety of workmen, employees plant and equipment

as may be prescribed from time to time without any demur, protest or contest or reservation. In case of any nonconformity between statutory requirement and safety rules of the BYPL referred above, the latter shall be binding on the contractor unless the statutory provisions are more stringent.

12.0 OHS Appreciation Policy

- 12.1 If the contractor observes all the safety rules and codes, statutory laws and rules during the period of the contract awarded by the BYPL and no accident occurs then BYPL may consider the performance of the contractor and safety score card will be prepared. The best contractor will be appreciated by suitable "SAFETY AWARD" as per scheme as may be announced separately from time to time.

13.0 Safety Motivational Scheme for Contractor Employee

- 13.1 All contractors must reward their employee monthly for best worker in term of complying safety norms. They should honour with a gift of Rs. 500/- (five Hundred) with commendation certificate to motivate others towards safety compliance. The record with photograph should kept with them & also to be submitted to BYPL safety department. Contractor may ask to BYPL safety people for their presence during awarding time.
- 13.2 All contractors have to observe safety day/ week on 4th March to 10th march every year with proper planning and record to create safety awareness inside their organization. A detailed report of observing the same to be forwarded to safety department every year.

14.0 Guidelines for Penalty Policy Implementation

- 14.1 Total penalty shall be calculated by multiplying the number of safety violations and the penalty amount specified for such violations in **Appendix - 1. (Example – If at first offence persons are found working without safety helmet at 3 locations, the penalty would be $3 \times 2000 = \text{Rs.}6000/-$)**
- 14.2 The amount of penalty can be increased or decreased based upon the seriousness of safety violations. The decision of recommending authority shall be final one.
- 14.3 Recommending authority shall send his factual observations to Department Head and Safety Head who in turn shall either reject or approve it. If approved, he shall send it to Finance & Accounts for execution. Finance Accounts shall execute the penalty and confirm the same & shall send it back to Department Head and Safety Head.
- 14.4 Recommending Authority means the Department Head, HODs, Site Safety officer / Supervisor, representatives from OHS and other personnel authorized jointly by O&M.
- 14.5 Penalties will be imposed for delay in submission of EHS related requirements/documents mentioned in the contract. Once the contract is accepted, the requirements as mentioned in **Appendix- 2 to be submitted within 4 weeks.**
- 14.5 Safety Head may impose penalty for serious violations directly.
- 14.6 All penalties shall be imposed directly on the concerned contractors. No penalty shall be imposed on individuals.

15.0 Guidelines for Safety Appreciation Policy Implementation

- 15.1 Recommending Authority shall write comments of his Appreciation in case he observes that there is no any safety violations.
- 15.2 Recommending Authority shall send his Safety Appreciation to Safety Head who in turn shall either approve or reject it and shall send it to Site Safety Officer for keeping in records.
- 15.3 Management will appreciate the Safe Contractors for their best performance towards safety norms based upon number of safety appreciation notes.
- 15.4 Every year best Safe Contractor shall be suitably awarded. The contractor shall be selected based upon the maximum numbers of approved safety appreciation notes.
- 15.5 Any contractor who has received any penalty for a particular year shall not be entitled for Safe Contractor's Award irrespective of number of safety appreciation notes he has received.
- 15.6 Site Safety Officer will maintain the contractor wise record of penalty & safety appreciation notes and declare the results latest by 28th February of every year for the performance of previous year.
- 15.7 BYPL Management shall present a Trophy with commendation certificate of safety excellence every year on the occasion of 4th to 10th March (National Safety Day) to the contractor, who qualified the safety standard criteria.

Appendix – 1

Penalty Policy on Safety Violation

Class	Type of Offense	Penalty Detail	Execution Channel
A	Not Wearing Safety Helmets Safety shoes/ Safety Goggles / Electrical insulating hand gloves/ reflective jacket/Not using electrically safe tools and equipments. (Poor quality or damaged item means noncompliance)	# First Offence - Warning Note & Rs.2000/- # Second Offence - Warning Note & Fine of Rs.5000/- # Third Offence- Note of recommendation of the concerned workmen/ supervisors for removal from deployment with BYPL& Fine of Rs.15000/-	Recommendation by OHS-Representative/Department Head Approval by Safety Head Deduction by Finance & Account
B	Not wearing Full Body Harness/fall arresters while working at a height more than 1.8 meter or where from a person may fall. Not using Safety Net to arrest falling objects and personnel. Not using Arc Protection Face Shield Not using barricading cone and tape. (Poor quality or damaged item means noncompliance)	# First Offence -Warning Note & Fine of Rs.5000/- # Second Offence - Warning Note for dismissal and a Fine of Rs.10000/- # Third Offense - -Action for the concerned Workmen/ supervisor for removal from deployment with BYPLand a fine of Rs.25000/-	Recommendation by OHS-Representative/Department Head Approval by Safety Head Deduction by Finance & Account
C	Any other unsafe work practices or condition which is considered having potential for fatality or injury to personnel.	# First Offence - Warning Note & Fine of Rs.10000/- # Second Offence - Action for the concerned workmen/ supervisors for removal from deployment with BYPL and fine of Rs.20000/-.	Recommendation by OHS-Representative/Department Head Approval by Safety Head Deduction by Finance & Account

Notes:

Refer clause No. 14 for penalty policy implementation guidelines

If there are 03 violations by an individual employee, his removal from deployment with BYPL

If there are 10 violations in one quarter, will be recommended for termination of contract order.

Appendix – 2

Penalty Policy on non- submission of EHS related requirements

Following EHS related requirements to be submitted within 4 weeks of agreement of contract

Requirement	Penalty Detail	Execution Channel
1. Contract specific health & safety plan and HIRA (Hazard Identification & Risk Analysis) 2. Safety supervisor training records on EHS (40 hrs training) 3. Submission of sample of PPE's in EHS department for approval (if procured by the contractor) 4. Bills/challan of PPE's along with test certificates (if procured by the contractor) 5. PPE's receipt by worker (as per Annexure #1) 6. Medical examination record of workers 7. ID card of workers 8. Calibration Certificates of equipments	Delay of 15 days- Warning Note & Consolidated Fine of Rs.5000/- on non-submission of proof of any of these mentioned 8 types of documents On every subsequent delay of 15 days- Warning Note & Consolidated Fine of Rs. 10,000/- on non-submission of proof of any of these mentioned 8 types of documents	Recommendation by OHS-Representative Approval by Safety Head Deduction by Finance & Account

Appendix – 3

Format for PPE's Receipt by workers

Name of Site -----

Division-----

Name of Contractor -----

S. N O.	NAME	DESI.	Safety Helmet	Electrical Insulating Hand gloves	Full Body Harness	Safety Shoes	Safety Goggle	Reflective Jacket	SIGNA TURE

Signature of Contractor / Date.....

FORMAT – 4.2**PROFORMA OF CONTRACT CUM PERFORMANCE BANK GUARANTEE****(TO BE ISSUED ON RS 100/- STAMP PAPER)**

This Guarantee made at _____ this [] day of [] 2025

1. WHEREAS **M/s BSES Yamuna Power Limited**, a Company incorporated under the provisions of Companies Act, 1956 having its Registered Office at **Shakti Kiran Building, Karkardooma, Delhi 110032**, India hereinafter referred to as the “Company”, (which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, executors and assigns).
2. AND WHEREAS the Company has entered into a contract for _____ (Please specify the nature of contract here) vide Contract No. _____ dated _____ (hereinafter referred to as the “Contract”) with M/s. _____, (hereinafter referred to as “Contractor”, which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include each of their respective successors and assigns) for providing services on the terms and conditions as more particularly detailed therein.
3. AND WHEREAS as per clause ____ of General Conditions of Contract, the Contractor is obliged to provide to the Company an unconditional bank guarantee for an amount equivalent to ten percent (10%) of the total Contract Value for the timely completion and faithful and successful execution of the Contract from [] pl. specify the name of Bank) having its head/registered office at [] through its branch in _____ (pl. specify the name of Branch through which B.G is issued) hereinafter referred to as “the Bank”, (which expression shall unless it be repugnant to the context or meaning thereof be deemed to include its successors and permitted assigns).
4. NOW THEREFORE, in consideration inter alia of the Company granting the Contractor the Contract, the Bank hereby unconditionally and irrevocably guarantees and undertakes, on a written demand, to immediately pay to the Company any amount so demanded (by way of one or more claims) not exceeding in the aggregate [Rs.].....(in words) without any demur, reservation, contest or protest and/or without reference to the Contractor and without the Company needing to provide or show to the Bank ,grounds or reasons or give any justification for such demand for the sum/s demanded.
5. The decision of the Company to invoke this Guarantee and as to whether the Contractor has not performed its obligations under the Contract shall be binding on the Bank. The Bank acknowledges that any such demand by the Company of the amounts payable by the Bank to the Company shall be final, binding and conclusive evidence in respect of the amounts payable by the Supplier to the Owner. Any such demand made by the Owner on the Bank shall be conclusive and binding, notwithstanding any difference between the Owner and the Contractor or any dispute raised, invoked, threatened or pending before any court, tribunal, arbitrator or any other authority.
6. The Bank also agrees that the Company at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor without proceeding against the Contractor notwithstanding any other security or other guarantee that the Company may have in relation to the Contractor's liabilities.
7. The Bank hereby waives the necessity for the Company first demanding the aforesaid amounts or any part thereof from the Contractor before making payment to the Company and further also waives any right the Bank may have of first requiring the Company to use its legal remedies against the Contractor, before presenting any written demand to the Bank for payment under this

Guarantee.

8. The Bank's obligations under this Guarantee shall not be reduced by reason of any partial performance of the Contract. The Bank's obligations shall not be reduced by any failure by the Company to timely pay or perform any of its obligations under the Contract.
9. The Bank further unconditionally and unequivocally agrees with the Company that the Company shall be at liberty, without the Bank's consent and without affecting in any manner its rights and the Bank's obligation under this Guarantee, from time to time, to:
 - (i) Vary and/or modify any of the terms and conditions of the Contract;
 - (ii) Forebear or enforce any of the rights exercisable by the Company against the Contractor under the terms and conditions of the Contract; or
 - (iii) Extend and/or postpone the time for performance of the obligations of the Contractor under the Contract; and the Bank shall not be relieved from its liability by reason of any such act or omission on the part of the Company or any indulgence shown by the Company to the Contractor or any other reason whatsoever which under the law relating to sureties would, but for this provision, have the effect of relieving the Bank of its obligations under this Guarantee.
10. This Guarantee shall be a continuing bank guarantee and shall not be discharged by any change in the constitution or composition of the Contractor, and this Guarantee shall not be affected or discharged by the liquidation, winding-up, bankruptcy, reorganization, dissolution or insolvency of the Contractor or any of them or any other circumstances whatsoever.
11. This Guarantee shall be in addition to and not in substitution or in derogation of any other security held by the Company to secure the performance of the obligations of the Contractor under the Contract.
12. NOTWITHSTANDING anything herein above contained, the liability of the BANK under this Guarantee shall be restricted to _____ (insert an amount equal to ten percent (10%) of the Contract Value) and this Guarantee shall be valid and enforceable and expire on _____ (pl. specify date) or unless a suit or action to enforce a claim under this Guarantee is filed against the Bank on or before the date of expiry.
13. On termination of this Guarantee, all rights under the said Guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities hereunder.
14. The Bank undertakes not to revoke this Guarantee during its validity except with the prior written consent of the Company and agrees that any change in the constitution of the Bank or the Contractor shall not discharge our liability hereunder.
15. Company may assign this Guarantee to any Person or body whether natural, incorporated or otherwise under intimation to the Bank. The Bank shall be discharged of its obligations hereunder by performance in accordance with the terms hereof to such assignee without verifying the completion period / legality / enforceability of the assignment.
16. This Guarantee shall be governed by the laws of India. Any suit, action, or other proceeding arising out of, connected with, or related to this Guarantee or the subject matter hereof shall be subject to the exclusive jurisdiction of the courts of Delhi, India.

Dated this day of 2025 at

(Signature)

.....

(Name)

.....

(Designation with Bank Stamp)

Attorney as per

Power of Attorney No.....

Date.....

Beneficiary's bank detail with IFSC Code:

1. Name of the Bank : State Bank of India
2. Branch Name & Full Address: Industrial Finance Branch, 14-15 Floor,
JawaharVayparBhawan, 1, Tolstoy Marg, New Delhi 110001
3. Bank Account No: 10277791808
4. IFSC Code: SBIN0009601

Vendor has to fill this form & submit along with the PERFORMANCE BANK GUARANTEE

1. Bank Email ID-----Bank Phone No-----
2. Where to Dispatched the BG -Local Address of bank -----
3. Where to Dispatched the BG Head Office Address -----

FORMAT – 4.3

NON-DISCLOSURE AGREEMENT

THIS NON-DISCLOSURE AGREEMENT ("Agreement") is made and entered into at Delhi on the _____ day of _____, 2025

By And Between

M/s BSES Yamuna Power Limited, a company registered under the Companies Act, 1956 and having its registered office at **Shaktikiran Building, Karkardooma, Delhi 110032** (hereinafter referred to as the "Disclosing Party" which expression shall unless repugnant to the meaning and context mean and include its successors and permitted assigns) of the FIRST PART

And

_____, a company incorporated under the Companies Act, 1956 and having its registered office at _____, (hereinafter referred to as the "Receiving Party" which expression shall unless repugnant to the meaning and context mean and include its successors and permitted assigns) of the OTHER PART

Disclosing Party and Receiving Party are hereinafter individually referred to as the "Party" and collectively as the "Parties".

WHEREAS the Disclosing Party is in discussions with the Receiving Party for Security Management Services ("Project") and the Disclosing Party may in conjunction with the aforesaid disclose to the Receiving Party information relating to their businesses which is confidential and sensitive in nature and the Receiving Party is willing to undertake to restrict the use and further disclosure of the information in accordance with the terms and conditions set out herein:

1. The "Receiving Party" acknowledges and confirms the confidential and sensitive nature of all information, documents and material relating to Persons and entities which may be accused of or related to the theft of electricity which is a penal offense under the provisions of the electricity act 2003As well as the various data and tools which may be available by way of documents as well as other modes of proof("Project") (i) that may be disclosed or made available to the Receiving Party by the Disclosing Party or its employees/ representatives/ advisors/ consultants; (ii)Receiving Party may gain or gather from any source; (iii) Receiving Party may process or arrive at during the course of the Project; (iv) Receiving Party may have come across during its discussions with any person in the course of the Project; and (v) all negotiations and discussions between the Parties relating to the Project (all the information referred to above is hereinafter referred to as the "Confidential Information").
2. Confidential Information is understood to include but is not limited to information made available in written, machine recognizable, graphic or sample form including, without limitation, drawings, photographs, models, design or performance specifications, its analysis, compilations, studies, notes and all other information and data disclosed orally or visually which has been developed / is exclusive to the Disclosing Party and includes information provided in various meetings.

Provided, however, that Confidential Information shall not include information which (a) is, or becomes, publicly known, otherwise than through a wrongful act of the Receiving Party or its representatives; (b) is in the possession of the Receiving Party prior to receipt from the Disclosing Party or its

representatives without an obligation of confidentiality; (c) is independently developed by the Receiving Party, provided that it was not derived from the Confidential Information; (d) is furnished to others by the Disclosing Party without restrictions, similar to those herein on the rights of such others to use or disclose; or (e) is approved in writing by the Disclosing Party for disclosure.

3.The Receiving Party shall not disclose the Confidential Information to any other person save and except with the express consent in writing given by the Disclosing Party. The Receiving Party, however, may disclose such part of the Confidential Information where (i) such disclosure is in response to a valid order of a court or any other governmental body having jurisdiction over this Agreement or (ii) such disclosure is otherwise required by law, provided that Receiving Party has given prior written notice to the Disclosing Party forthwith it came to learn about such disclosure requirement or the demand for such for disclosure and made all reasonable efforts to protect the Confidential Information in connection with such disclosure.

4.The Receiving Party shall with reference to the Confidential Information take all actions as may be necessary to (i) maintain the confidentiality thereof; (ii) limit its use of such Confidential Information solely for the purpose of the Project; (iii) avoid disclosure even to any of its employees that are not associated with the Project; (iv) avoid any dissemination or publication by any of its employees/ representatives associated with the Project; (v) avoid writing about sensitive information which is disclosed verbally and is sensitive to the operations; and (vi) safeguard the Confidential Information from being accessed by any unauthorized person. Such actions shall include but not be limited to obtaining appropriate non-disclosure undertakings from its employees directly or indirectly engaged in the Project.

5.The Receiving Party hereby agrees to indemnify and hold harmless the Disclosing Party and its directors and employees from and against any damage, loss, cost or liability (including all expenses and costs of enforcing rights under the Agreement) arising out of or resulting from (i) any use or disclosure by the Receiving Party of Confidential Information in violation of the Agreement; (ii) any leakage of the Confidential Information at the end of the Receiving Party or its employees/ representatives; and (iii) breach or violation of any of the other covenants herein.

6.The Receiving Party will, promptly upon the request of the Disclosing Party, deliver to the Disclosing Party, the documents comprising the Confidential Information or any part thereof and will destroy any copies, notes, or extracts thereof, without retaining any copy thereof, except that any portion of the Confidential Information that consists of analysis and any written Confidential Information not so requested and returned, shall be retained and kept subject to the terms of this Agreement, or upon the Disclosing Party's request destroyed (such destruction to be confirmed in writing).

7.The term of this Agreement is 3 years from the date of execution of this Agreement. However, the obligation to maintain confidentiality of the Disclosing Party's information shall survive the termination of this Agreement. Any violation of this agreement may lead to termination of all the relations with the Receiving party and black listing/ debarring of the Agency for future engagements.

8.This Agreement shall be governed by the laws of India. Any dispute, difference or claim related to or arising under, out of or in connection with this Agreement shall be resolved subject to the jurisdiction of Delhi Courts.

For the Disclosing Party

Authorized Signatory

Name:

Designation:

For the Receiving party

Authorized Signatory

Name:

Designation:

FORMAT – 4.4**NO DEVIATION DECLARATION****NO DEVIATION –A (Technical)**NIT NO & DATE:DUE DATE OF TENDER:

We hereby accept all terms and conditions of the technical scope of work as mandated in the tender documents subject to the following deviations as mentioned against the applicable technical qualifying requirement:

S.NO.	SL.NO OF TECHNICAL SPECIFICATION/SCOPE OF WORK	DEVIATIONS, IF ANY

SIGNATURE & SEAL OF BIDDER

NAME OF BIDDER

Note-The above template is indicative only, May vary depending on the nature of procurement/value.

NO DEVIATION –B (Commercial)NIT NO & DATE:DUE DATE OF TENDER:

We hereby accept all terms and conditions of the commercial requirement as mandated in tender document subject to the following deviations as mentioned against the applicable commercial qualifying requirement:

S.NO.	S. NO OF COMMERCIAL REQUIREMENTS	DEVIATIONS, IF ANY

SIGNATURE & SEAL OF BIDDER

NAME OF BIDDER

Note:- It is important to explicitly include all such terms and conditions which are considered absolutely necessary to be accepted by bidder without any deviation. Tender document shall have a stipulation that deviation to such criteria shall make the bid liable for rejection.

FORMAT – 4.5

BIDDER'S COMMUNICATION DETAILS

Bidder should furnish the below details for future communication: -

<u>GENERAL INFORMATION</u>	
NAME OF Company	
POSTAL ADDRESS	

FOR TECHNICAL QUERY:		
CONTACT PERSON & DESIGNATION	NAME	DESIGNATION
E-MAIL	MOBILE NO	TELEPHONE NO

FOR COMMERCIAL QUERY:		
CONTACT PERSON & DESIGNATION	NAME	DESIGNATION
E-MAIL	MOBILE NO	TELEPHONE NO

Note: No communication shall be entertained from any other email id, except as mentioned above. Bidder needs to inform the company if any changes in the email id on their letter head duly signed by the authorized signatory.

Format – 4.6
UNDERTAKINGS
(To be submitted on Bidders Letter Head)

Date:

Tender No.:

To

Head of Department

Contracts & Material Deptt.

BSES Yamuna Power Ltd

Shaktikiran Building, Karkardooma,

Delhi 110032

Sir,

We M/s *[name of bidder]*, do hereby undertake that

- *[name of bidder]* has “No Litigation” pending with the BYPL or its Group/Associates Companies as on the date of bid opening.
- *[name of bidder]* has not been blacklisted/debarred by any central/state government institution/Electricity utilities as on the date of bid opening.
- *[name of bidder]* shall comply with all the statutory compliances as per the laws/rules etc. before the start of the supply/work.
- *[name of bidder]* shall submit an undertaking on their letterhead that all the documents/certificates/information submitted by them against the tender are genuine/true/correct and the copies of documents have been made from the original document/s.

Yours Sincerely,

For

Authorized Signatory

Format – 4.7

GPR Survey Format							
Vendor							
Division							
Name of the work							
Scheme number							
Work Order Number							
From :						To :	
S.no.	Cable Size	Cable Laying Method	Execution date	Route Length (Mtr.)	Depth (Mtr.)	longitude and Latitude Coordinates	Remarks
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

SCHEDULE – C
DETAILS OF QUALIFIED PERSONS EMPLOYED

S.No.	Name	Qualification	Since when working tenderer

- (a) In respect of graduate Engineers:
- (b) In respect of diploma in engineering:
- (c) In respect of Technicians:
- (d) Total number of other workers employed with the Tenderer:

Skilled workers

(Nos.)

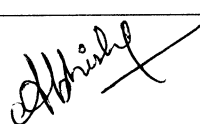
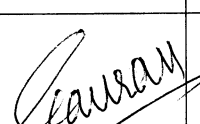
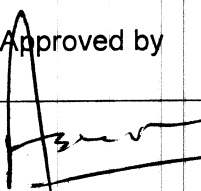
Un-skilled workers

(Nos.)

TECHNICAL SPECIFICATIONS FOR CABLE LAYING
(Enclosed herewith as Specification No. – SP-LHTC-80-R2)

TECHNICAL SPECIFICATION FOR CABLE LAYING

**TECHNICAL SPECIFICATION
FOR
LAYING OF
11 KV, 33KV AND 66 KV CABLE**

Prepared by	Reviewed by	Approved by	Rev	02
			Date	18 th March 2019
AV	GS	AA	Page	1 of 42

TECHNICAL SPECIFICATION FOR CABLE LAYING

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TECHNICAL SPECIFICATION FOR CABLE LAYING

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1. REFERENCE STANDARDS

- i) IS 1255: Code of practice for installation and maintenance of power cable up to and including 33kV rating.
- ii) IS 1554: PVC Insulated Electrical Cables upto 11KV
- iii) IS 2274: Code of Practice for electrical wiring installation – system voltage exceeding 650V
- iv) IS 7098 Part II: Cross linked Polyethylene Insulated PVC sheathed cables for working voltages from 3.3KV up to and including 33KV
- v) IS 7098 Part III: Cross linked Polyethylene Insulated PVC sheathed cables for working voltages from 66KV up to and including 220KV
- vi) IS 5820: Specification of precast concrete Cable cover.
- vii) Indian Electricity Rules 1956.

TECHNICAL SPECIFICATION FOR CABLE LAYING**2. CABLE LAYING****2.1. SELECTION OF THE ROUTE**

The cable route selection shall be done by the concerned supervising engineer by first conducting route survey and selecting a route along with contractor keeping followings in mind-

- i) The side of road, which presents the least obstacles and the fewest roadways crossings.
- ii) The future consumers and existing cables in the route may influence the cable route.
- iii) Railway, road crossings, MCD and other government agencies may also influence in selection of cable route.
- iv) Plans for future building projects should be considered.

The route shall be as far as possible away from parallel running gas, water pipes and telephone/telecommunication cables.

2.2. CLEARANCES

The desired minimum clearances are as follows –

- i) Power cable to power cable – A minimum clearance equal to diameter shall be maintained. Trench drawings shall be referred for guidance.
- ii) Power Cable to control cables – 0.2 M
- iii) Power cable to communication cable – 0.3M

TECHNICAL SPECIFICATION FOR CABLE LAYING

- iv) Power cable to gas/water main – 0.3 M

2.3. DEPTH OF CABLE LAYING

The desired minimum depth of laying from ground surface to the top of cable shall be

- | | | | |
|------|--|---|-------------|
| i) | 650 / 1100V grade XLPE Cable | - | 75 cm |
| ii) | Low voltage and Control Cable | - | 75 cm |
| iii) | 6.35 / 11KV grade XLPE Cable | - | 90 cm |
| iv) | 19 / 33KV grade XLPE Cable | - | 1.05 M |
| v) | 38 / 66KV grade XLPE Cable | - | 1.20 M |
| vi) | Cables at Road crossing | - | 1.0 M (min) |
| vii) | Cables at railways level crossings (measured from bottom of sleepers to the top of Pipe) | - | 1.0 M (min) |

Whenever there is any obstacle at the laying depth, the cable should be lowered/ raised to cross the obstacle. However variation in the depth is to be approved by BSES. The Contractor shall provide the same in deviation report.

2.4. WIDTH OF CABLE TRENCHES

The width and depth of Cable Trenches shall depend upon number of circuits and Voltage Grade. Drawings of this specification are shown in the document itself.

2.5. BENDING RADIUS OF CABLES

TECHNICAL SPECIFICATION FOR CABLE LAYING

While pulling of the Cable from the drum or during laying following minimum bending radius shall be maintained so that the cable, in particular the insulation does not get damaged.

i) Single Core Cables (PVC & XLPE)

- a) Up to 11KV grade – 15 X D
- b) Above 11KV grade - 20 X D

ii) Multi Core Cables (PVC & XLPE)

- a) Up to 1.1KV grade - 12 X D
- b) Above 1.1KV grade – 15 X D

Where 'D' is overall diameter of the cable

2.6. MAXIMUM PERMISSIBLE TENSILE STRENGTH FOR CABLES**i) For cables pulled with Stocking**

- a) PVC and XLPE SWA Armoured cables $P = 30 \times D$
- b) PVC and XLPE AWA Armoured cables $P = 20 \times D$

Where P= pulling force in Kgm, D= Diameter of Cable in mm

ii) For Cables pulled by Cable eyes

- a) Aluminium conductor – $30 \text{ N/mm}^2 = 3 \text{ Kg/sq. mm}$

TECHNICAL SPECIFICATION FOR CABLE LAYING

b) Copper conductors - $50\text{N/mm}^2 = 5\text{ Kg/sq. mm}$

Permissible force is calculated by multiplying the above values by cross sectional area (CSA) of conductor of each core and then number of cores.

2.7. METHODS OF LAYING

- i) Cables shall be laid in direct in ground, in trenches excavated therein and shall be protected with covers as given in the drawing. Cables shall also be drawn into pipes of ducts or laid in the formed trenches or troughs or on racks or supported in trays or cleats as required by the site exigencies. Where the cables are laid in the formed trenches, the installation shall include removal and replacement of the trench covers and the provision of temporary protective covers on the trenches where they cross the access ways.
- ii) HDPE (200 mm) pipes shall be used where cable cross roads and railways tracks. Spare ducts for future extensions should be provided. Spare duct should be sealed off. Buried ducts or ducting blocks shall project into footpath or up to the edge of road, where there is no footpath, to permit smooth entry of cable without un-due bending. The diameter of the cable conduit or pipe or duct should be at least 1.5 times the outer diameter of the cable. Angular alignment of the duct across road crossings shall be predetermined to maintain safe bending radius when direction of cable trench changes before or after the road.
- iii) The contractor shall lay cable by horizontal direct drilling (HDD) in main roads and highway with heavy traffic, passage to public

TECHNICAL SPECIFICATION FOR CABLE LAYING

property where excavation is not possible. Contractor shall take approval for laying of cable by means of HDD wherever required from the supervising engineer. The cable laid by HDD shall be minimized so that it doesn't exceed by 12% of total route length. This is to avoid De-rating of Cables.

- iv) Unless approved by BSES, the contractor shall lay the cables, direct in ground, in single layer. The cables shall be laid with the pre-determined and approved cable route.
- v) Spacing shall be maintained uniformly between the cables all along the length including the bends, as approved by BSES. To maintain the spacing, suitable non-metallic formers shall be placed uniformly with spacing not exceeding 5 meters. Every bend shall have at least one spacer.
- vi) 75 mm of the sand bed shall be placed at the bottom of cable trench.
- vii) After the cables have been laid the trench shall be filled with the sand and shall be well rammed to a level not less than 75 mm above the top of the cables all throughout the route.
- viii) To protect the cables against external mechanical damage, which may be caused by other agencies, the cable shall be protected by suitable cover.(for dimensions of RCC cable cover refer cable laying drawing)

The type of the covers shall be as under

TECHNICAL SPECIFICATION FOR CABLE LAYING

- a) 1.1KV Cables – Single layer of brick thickness not less than 75 mm (3 inch)
- b) 11KV Cables – sand stone of thickness not less than 75mm (3 inch).
- c) 33KV Cables shall be protected by reinforced concrete cover of width 300 mm as per attached drawing with thickness not less than 50mm.
- d) 66KV Cables shall be protected by reinforced concrete cover as per attached drawing with thickness not less than 50mm.

The RCC cable cover shall be embossed as “BYPL 66/33/11 KV CABLE” whichever is applicable.

- ix) Back fill to be filled up to 75mm and the warning tape shall be installed continuously. The tape shall be yellow in colour with Black / Red lettering of minimum 20mm height. The approved warning message shall be written in English and Hindi/ local language. The minimum thickness and width of the tape should be 300 microns and 150 mm respectively.
- x) The trench shall be filled-up by soft soil (300mm) and Excavated soil as indicated in drawings.

TECHNICAL SPECIFICATION FOR CABLE LAYING

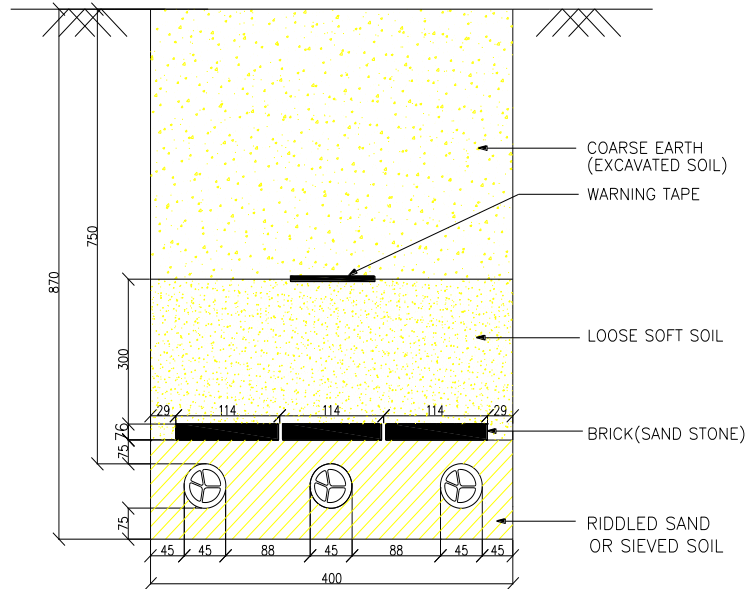


Figure 1.1 – 1.1kV, 150sqmm Buried Cable

TECHNICAL SPECIFICATION FOR CABLE LAYING

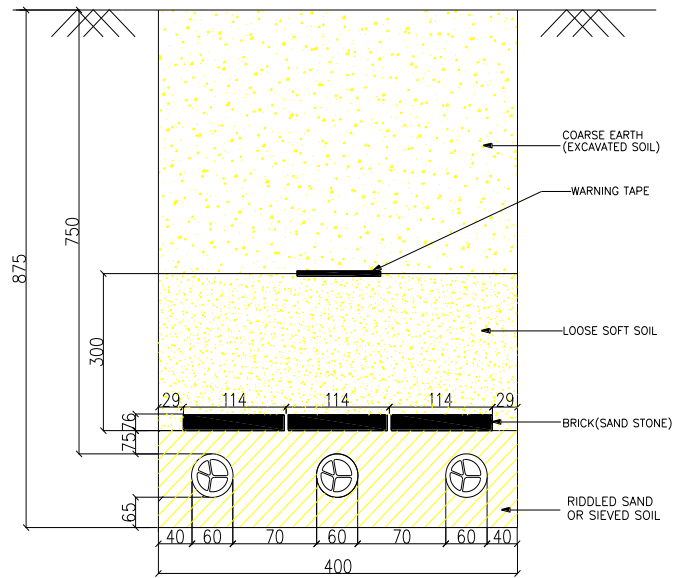


Figure 1.2 – 1.1kV, 300sqmm Buried Cable

TECHNICAL SPECIFICATION FOR CABLE LAYING

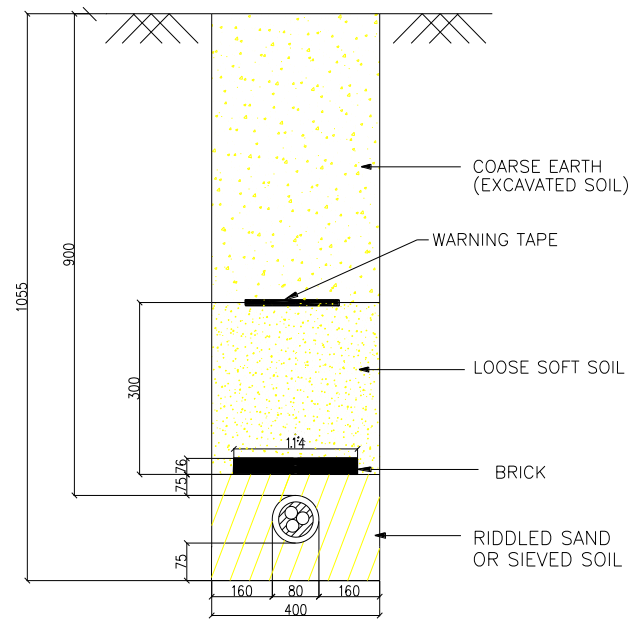


Figure 1.3 – 11kV Buried Cable for Single Circuit

TECHNICAL SPECIFICATION FOR CABLE LAYING

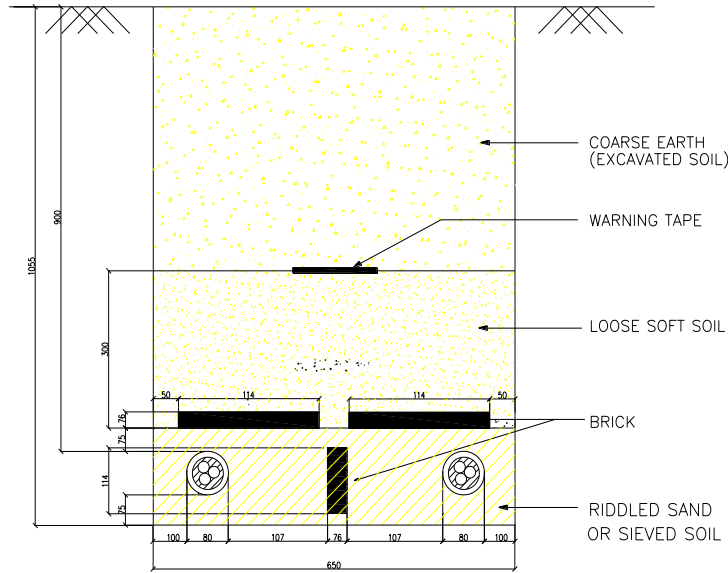


Figure 1.4 – 11kV Buried Cable for Double Circuit

TECHNICAL SPECIFICATION FOR CABLE LAYING

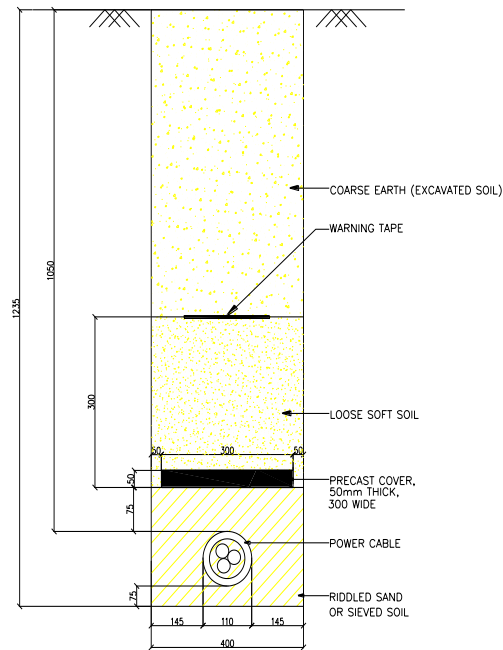


Figure 1.5 – 33kV Buried Cable for Single Circuit

TECHNICAL SPECIFICATION FOR CABLE LAYING

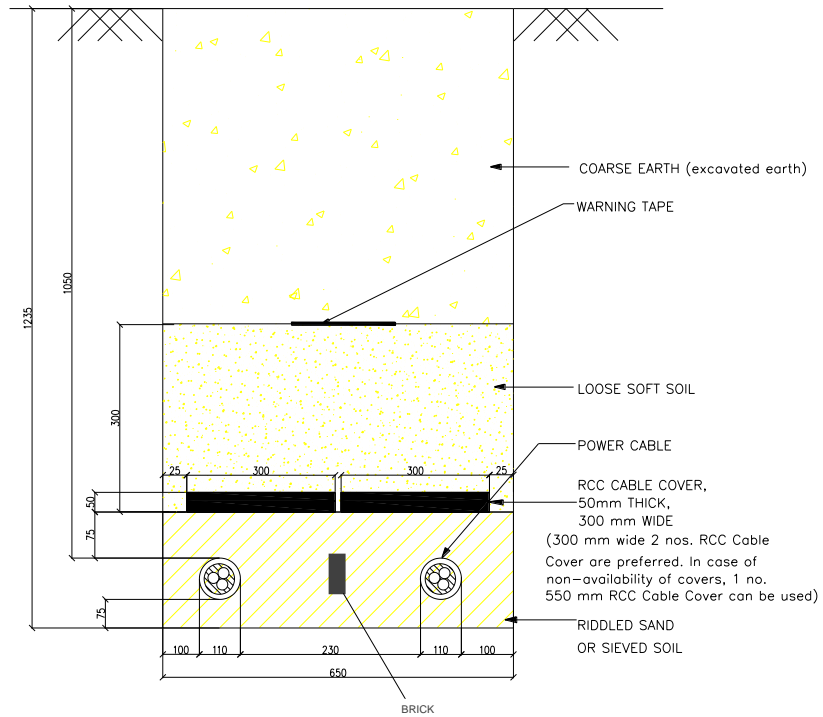


Figure 1.6 – 33kV Buried Cable for Double Circuit

TECHNICAL SPECIFICATION FOR CABLE LAYING

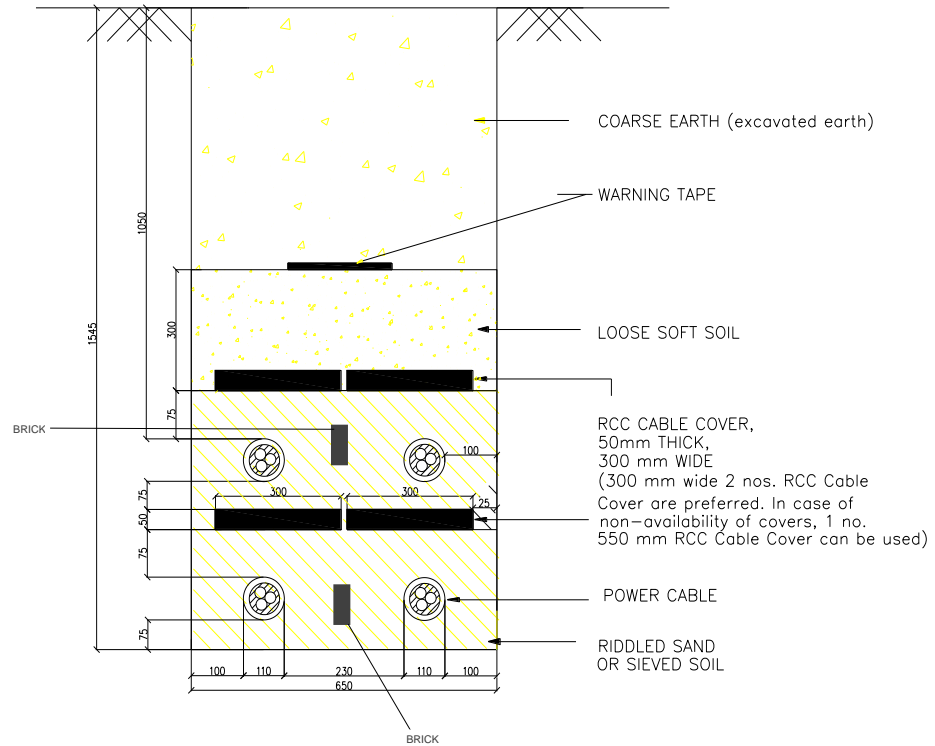


Figure 1.7 – 33kV Buried Cable Option-1 for Four Circuits

TECHNICAL SPECIFICATION FOR CABLE LAYING

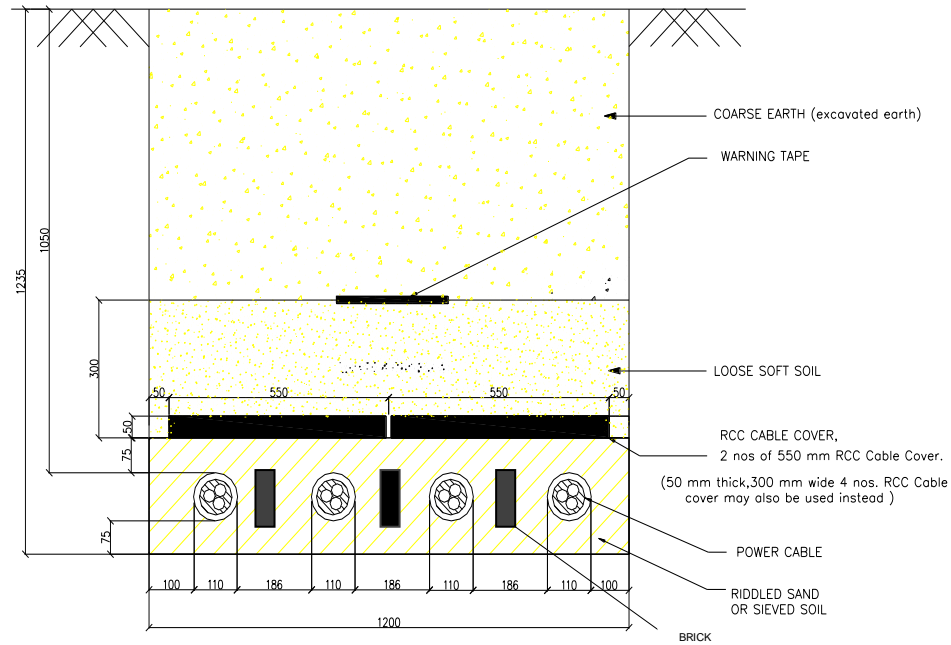


Figure 1.8 – 33kV Buried Cable Option-2 for Four Circuits

TECHNICAL SPECIFICATION FOR CABLE LAYING

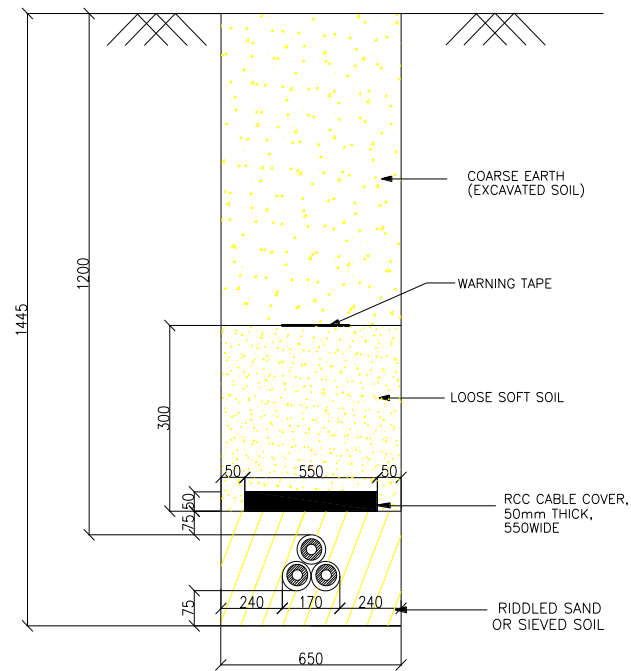


Figure 1.9 – 66kV Buried Cable for Single Circuit

TECHNICAL SPECIFICATION FOR CABLE LAYING

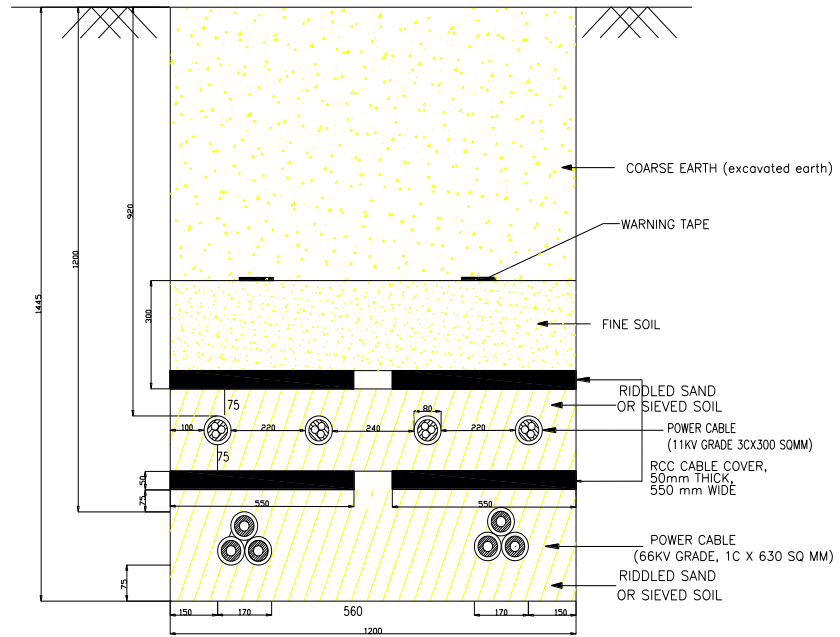


Figure 1.10 – 66kV Double Circuit and 11kV Circuits

TECHNICAL SPECIFICATION FOR CABLE LAYING

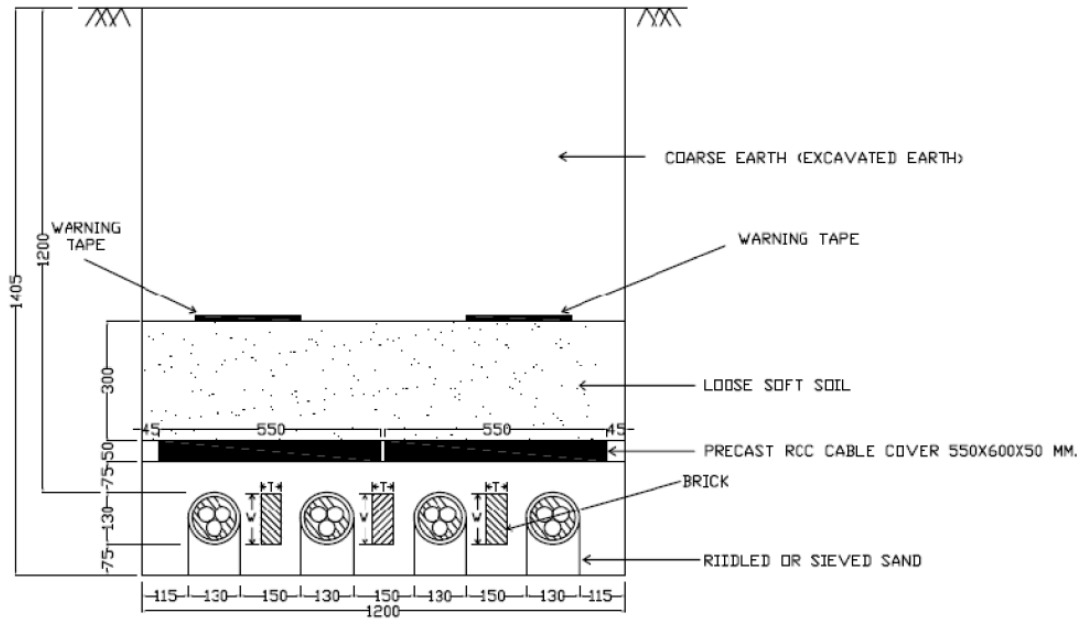


Figure 1.11 – 66kV 3Cx300 sq mm Four No's Cable Runs

TECHNICAL SPECIFICATION FOR CABLE LAYING**2.8 CABLE OVER BRIDGES**

On Bridges the cables are generally supported on HDPE cleats and clamped on steel supports at regular intervals. Approval from appropriate authorities (PWD/railways) as applicable shall be taken by contractor.

2.9 LAYING OF SINGLE CORE CABLES

- a) The single core cables shall be laid in trefoil formation. Single core cables can be laid individually in 200mm HDPE pipe in case of HDD only.
- b) For single core cables laid in trefoil formation, plastic cable ties shall be used at interval of 1.0 (one) meter throughout the cable length to maintain the trefoil arrangement.
- c) To prevent magnetic losses (eddy current and hysteresis losses), the base plate of the panels or the terminal box of the equipments, shall have aluminum plate. Incase the entry into the building is through GI pipe; a “slit” in the GI pipe shall be necessary. Alternatively GI pipes may altogether be avoided and non-metallic pipes such as PVC or HDPE pipe shall be used. Concrete pipes having steel reinforcement (RCC pipe) are not to be used.

TECHNICAL SPECIFICATION FOR CABLE LAYING**2.10 EARTHING OF SINGLE CORE CABLES**

- i) Single point bonded earthing shall be employed to prevent flow of induced circulating current in the armour and screen and consequential de-rating of cables for feeder less than 2.0 KM.
- ii) For feeder length more than 2 KM, cross bonding shall be provided.

2.11 GENERAL GUIDELINES FOR LAYING CABLES

- i) Laying of the cables and handling of the same shall be undertaken, at all times, by adequate staff suitably trained and supplied with all the necessary plant, equipment and tools.
- ii) The contractor shall be responsible for all the route survey, establishment of the position of the joints as per the site requirement and the drum lengths of cables to be laid. While carrying out the route survey the contractor shall take into account the obstacles on the route whether above or below ground. The cable shall be planned to be laid in an orderly formation, free from unnecessary bends and crossings
- iii) The contractor shall submit a drawing for the complete scheme showing the entire route, road crossings, location of joints and also the arrangement of cables to be laid. In case due to site exigencies, cables have to cross over within the trench, the same shall be shown in the drawing. For each and every job, this drawing shall be approved by BSES, prior to commencement of work.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- iv) Contractor shall arrange for all the material and manpower required for jointing and end termination. The Contractor shall provide pit, carry out excavation for creation of working space required for jointing by the jointer. The contractor shall carry out all civil works, structural work, clamping and earthing, so that the cables and accessories perform satisfactorily during the entire lifetime.
- v) The entry and exit of the cables into the building shall be through RCC or GI pipe except for single core cables, which shall be properly sealed and shall be duly supported as per the method and technique approved by BSES, so that the outer sheath of the cable does not get damaged at the entry and exit points. The sealing should be of adequate length so that it minimizes the risk of spreading of fire or ingress of water.

2.12 HANDLING AND STORAGE OF CABLE DRUMS

- i) The cable drums shall be transported upright, so that the weight is distributed on both the flanges. Under no circumstances the cable drum may be laid on its side. During transportation the drums must be properly secured. The cable drums should never be dropped from Lorry or a trailer, so as to prevent damage to the cable drum and also to the cable. Ramp may be used for unloading. The drums may be rolled over short distance, provided the correct direction of rolling as provided on the drum is observed. Alternatively, a mobile crane should be used for lifting and lowering the drum. A chain-pulley arrangement may also be used to lift the drums and deposit the same on ground if required.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- ii) In case the drums are to be stored prior to cable laying, they should be arranged in such a way to leave some space between them for air circulation. It is desirable that the drums stand on battens placed directly under the flanges. Overhead covering is not essential except in heavy rainfall areas or during monsoon. Cable should however be protected from direct rays of sun by leaving the battens on or by providing some form of sunshade. In no case the drums shall be stored in a flat position with flanges horizontal.
- iii) For transportation of the cable drums from storage site to work site, the drum should be mounted on a trailer or an open lorry and unloaded by mobile cranes.

2.13 PROCEDURE OF LAYING

- i) The ground over which the drum is positioned at site should be properly consolidated and jacks placed on both sides of the drum to make the pay-off arrangement stable. Suitable arrangement be made to stop the drum rotation, during cable laying preferably by square wooden poles kept temporarily pivoted over cable roller under the flanges which when required can be applied on the flange as a brake by personnel manning the drum.
- ii) The cable should always be paid off from the top of the drum. The drum must be positioned in such a way that the arrow on the drum points opposite to the direction of rotation marked on the drum.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- iii) It must be ensured that the cable is not dragged over sharp object or on the road surface, so as to avoid damage to the outer sheath of the cable.
- iv) The pulling method to be used shall be approved by BSES. Cable supplier's recommended maximum pulling tension shall not be exceeded.
- v) Rollers shall be placed at intervals and the cable shall be pulled over the rollers. The rollers shall be kept lubricated so that they rotate freely, minimize friction to the cable in motion. Rollers shall be positioned at the bends to minimize sidewall friction. The contractor shall ensure that PVC/HDPE sheath of cable is free from damage due to abrasion.
- vi) The cable should not be pulled out from the drum by lifting of the coil while the drum is lying flat on the flange. This leads to twisting of the armour and cores resulting in permanent damage to the cable.
- vii) To avoid ingress of moisture, it must be observed that the end capping of the cables is not damaged. Cut pieces of the cables must be capped immediately, before laying of the same is taken-up.

2.14 EXCAVATION OF THE TRENCHES

- i) The excavation of the trenches shall be commenced, with proper approvals from various authorities well in time.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- ii) Before opening of the section of the trench, the contractor shall satisfy himself that the line of the trench is clear of underground obstructions, by taking out trial pits on the line of the trench.
- iii) The exact location of each trench shall be approved on site by BSES. The trenches shall be kept as straight as possible and each trench shall be excavated to approved formation and dimensions. If necessary, the trenches shall be adequate shored by wooden planks and bracing to avoid trench cave-ins which would cause injury to the persons and also damage the cables laid.
- iv) The bottom of each trench shall be firm and of smooth contour. The contractor shall take reasonable precautions to prevent damage to the highway or ground surface from a slip or breaking away of the sides of the trench.
- v) The trench excavation and filling in shall be so executed that all walls, roads, sewers, drains, pipes, cables, structures, places and things shall be reasonably secured against risk of subsidence or injury and shall be carried out to the satisfaction of the authorities concerned. Should, however, a damage to an existing or other services be made, the Contractor will arrange and pay for any necessary repair, to make good the damages.
- vi) Where trenches pass from a footway to a roadway or at other positions where a change of level is necessary, the bottom of the trench shall rise or fall gradually. The rate of rise or fall shall be approved by BSES.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- vii) Contractor shall ensure that during excavation and until restoration has been completed, for reasonable access of persons and vehicles to property or places adjacent to the route.
- viii) When the excavation of the trenches has been accurately executed, the contractor shall inform BSES for approval. Laying of cables or building of structure shall not be started until the contractor has been advised by BSES to proceed with the work.

2.15 EXCAVATED MATERIAL

- i) The materials excavated from each trench shall be placed so as to prevent nuisance or damage to adjacent ditches, drains fences, gateways and other property or things. Excavated material shall be stacked so as to avoid undue interference with traffic.
- ii) Where, owing to traffic or for reasons of safety or other considerations, this is not permissible, the excavated material shall be removed from the site and returned for refilling the trench on completion of laying; surplus material shall be disposed off by the contractor at his own cost.

2.16 PIPES AND DUCTS

- i) Care shall be taken to make the bend of the pipes or duct lines as easy as practicable and in no case of radius less than 3 meters. Where approved, split pipes may be used on bends, the pipes being fitted round the cable after laying.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- ii) All road crossings shall be ducted. This applies to present and future roads as indicated on the route plans. The pipes and the ducts shall be laid in an approved manner and shall be surrounded by 150 mm of PCC (1:2:4)
- iii) Ducts under the road shall be provided by the contractor, by non-disruptive method, if road cutting is not permitted by the concerned authorities Cable laying shall be done by Horizontal Direct drilling method (HDD).
- iv) The cables shall be suitably protected at entry and exit from the pipes, so that the outer sheath does not come in contact with the edges of the pipes / ducts. The pipes and ducts shall have slope so that the seepage water can drain through the small opening provided on the lower side of the pipe sealing.
- v) The pipes and ducts shall be secured to the base at both ends and at regular interval, throughout the length, so that at no point the ducts or pipes get suspended over the threaded cable, and damage the same, thus defeating the very purpose of providing the pipe / duct.
- vi) At all road crossings at least one spare duct / pipe shall be provided for future use. The pipe shall be thoroughly cleaned of obstructions. A draw wire or rope shall be left in each pipe to facilitate the drawing in of the cables. The duct end shall be sealed temporarily to prevent the entry of foreign matter. End caps and permanent markers shall be placed flush with footpath / roadways at both the ends. The pipes

TECHNICAL SPECIFICATION FOR CABLE LAYING

and ducts shall be cleaned again immediately before the cables are drawn in.

- vii) The internal diameter of the pipe / duct should be such that the cables occupy only 40% of the area of the pipe / duct to avoid de-rating.

3. JOINTING OF CABLES

3.1 TYPES OF ACCESSORIES

- i) Straight Through / Transition Joints - These Joints are used for connecting two cables in the run.
- ii) Termination or sealing end – This is generally used to connect a cable to switchgear terminals, H.T. pillars, transformer boxes and OH lines etc. GIS End termination should be used wherever required.

3.2 REQUIREMENTS OF CABLE JOINTS

- i) Resistance of the jointed conductor should be equal to or less than resistance of the conductor of the same length.

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- ii) Connector & lug should have a mechanical strength should be comparable to that of the conductor.
- iii) Thickness of built up insulation should be equal to or more than thickness of insulation of cable.
- iv) The Joint should provide proper mechanical protection to the insulated cores against damage by impact.
- v) The joints should ensure the continuity of metallic sheath or armour.
- vi) Proper stress control shall be provided to eliminate occurrences of high electrical stresses at screen cut points and over crimped connector.
- vii) The Joints shall be provided with an outermost layer resistant to corrosion by chemical effect

For joints of screened cables, following additional features must be considered

- i) Electric stress relief at termination of screen
- ii) Ionization and corona discharge

Besides the above requirement, cable joints should be simple and compact. It should require minimum time for jointing. It should be mechanically strong to

TECHNICAL SPECIFICATION FOR CABLE LAYING

withstand dynamic stresses due to short circuit current and impacts. The joints should further be resistant to corrosion and other chemical effects.

3.3 PREPARATION BEFORE JOINTING

A proper joint position should be selected for jointing. The joint pit should be of sufficient dimensions as to allow jointers to work. Sides of the pit should be well covered with tarpaulin sheets to prevent loose earth from falling. When jointing cables in water logged ground or under monsoon conditions, sump hole should be excavated at one end of the joint pit in such a position so that the accumulating water can be pumped out or baled out without causing interference to the jointing operation. The jointing as far as possible is to be carried out inside a tent. Before proceeding for jointing, on the existing cable, it is very essential to identify the cable to be jointed. For jointing of high tension cables, the cable should be made dead and earthed before commencement of the jointing. This should be confirmed by spiking method.

Cleanliness is the most important factor in all jointing work. All tools should be clean and dry at the time of the jointing process. Cleanliness while handling the insulation is very important. Any contamination of the insulation by dust or moisture is detrimental to the joint. In case of paper cables, the cable seals should be examined for any damage or puncture. The paper insulation should then be tested for the presence of moisture. This is done by dipping the insulation paper in hot G-38 compound (110 Deg - 120 deg.C). Care should be taken not to touch the paper with hand. Paper should be held with a plier which

TECHNICAL SPECIFICATION FOR CABLE LAYING

should be slightly warm. If moisture is present in the sample, it will be detected easily by a bubbling or crackling sound. In case of faulty cable, if on test moisture is detected, then further test would have to be carried out to arrest moisture. The cables to be jointed should then be meggered to check the condition of the insulation and a further check of further continuity of cables and tracing out cables to be jointed is necessary. Number on cores represents the phases. But these should never be taken for granted. Crossing of the core should be avoided in a joint.

3.4 PROCESS OF JOINTING

The process of jointing mainly consist of

- i) Connecting conductors together
- ii) Replacing the machine applied insulation
- iii) Providing earth continuity
- iv) Providing mechanical protection

Conductor joints should satisfy the following basic requirements.

- i) Ensure conductivity of the conductor by proper crimping.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- ii) Leave a reasonably smooth finish and profile on the conductor joint so as to avoid under stress concentration.

4. BACK FILLING TRENCHES AND TEMPORARY REINSTATEMENT

- i) Filling in of trenches shall not be commenced until BSES has inspected and approved the cables and accessories at site. The inspection should be done on daily basis so that the trenches do not remain open unnecessarily, to avoid inconvenience to public.
- ii) Where cables routes are in public highways, footpaths, gardens etc., the method of reinstatement will be subject to approval by MCD. All costs incurred will be at the contractor's expenses.
- iii) The contractor shall be responsible for proper permanent reinstatement of the upper levels, which shall be carried out to the satisfaction of BSES and the MCD authorities concerned.
- iv) Before finally leaving site, permanent reinstatement shall be executed by the contractor to the approval of MCD and the property owners and all costs incurred shall be to the contractor's account.

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5. PERMANENT REINSTATEMENT OF PUBLIC ROAD, FOOT PATH ETC

- i) In public roads and footways the surfaces and foundations shall be temporarily reinstated by the contractor. After settlement, temporary reinstatement material shall be removed as necessary and the permanent reinstatement shall be carried out to the approval of the appropriate highway authority / MCD. Stone and pre-cast concrete paving kerbs and channels shall also be finally reinstated by the contractor.
- ii) Temporary reinstatement shall be maintained by the contractor until commencement of final reinstatement to ensure that the surface is always safe for the passage of pedestrians and vehicular traffic.

6. IDENTIFICATION

All cables shall be identified below the gland at each end, at joint position and at approved positions by means of bands engraved or punched with cable no. feeder name, size of cable, number of cores, phase colour etc. The bands shall be secured fastened in a permanent manner, and shall be made of material able to resist corrosion, dampness and mechanical damage.

TECHNICAL SPECIFICATION FOR CABLE LAYING**7. CABLE ROUTE MARKERS**

All cables routes shall have markers at suitable location with a gap not exceeding 30 meters. The route markers shall be approved design. Additional markers shall be provided at joint locations with approved markings.

8. CABLE SUPPORTS / CLAMPS

- i) The contractor shall supply and install all the supports, racks, trays, cleats, saddles, clips and other parts required to carry and secure the cables, without risk so that there is no undue mechanical load or stress due to weight of the cable at each end. Cleats, saddles and clips shall be of the design as approved by BSES. No cable shall be laid on the trench floor. They shall be run in a neat and orderly manner and the crossing of cables within the trench shall be avoided as far as possible. Where cable runs unavoidably cross, a suitable supporting arrangement shall be provided to maintain an adequate gap between the cables.
- ii) Every cable shall be supported at a point not more than 500 mm from its termination.

TECHNICAL SPECIFICATION FOR CABLE LAYING**9. INSTALLATION OF CABLES IN TUNNELS / BASEMENT / BELOW THE PANELS**

- i) The design of cable support for cables installed in air in cable tunnels, basements etc. shall consist of vertical steel members spaced at approved interval and secured to the walls, floors and ceilings as necessary by means of bolts either cemented in position or expanded into cored holes. Each vertical support shall have bolted to it a number of steel brackets spaced at the intervals and designed to support and retain trays constructed of galvanized sheet steel of adequate section to carry the weight of the cables, plus space for an additional quantity of future cables at least 25% by weight and dimensions in excess of the cables installed under the contract and an additional load of 100 kg at the extremity without distortion. The trays shall be designed with raised edges to retain the cables and shall incorporate an interlocking feature so as to prevent movement between supports.
- ii) The design and construction of all cable cleating and supporting arrangements shall suit the cable system design. The spacing of cable supports shall be approved by BSES.
- iii) Cable run on trays shall be neatly dressed and where not provided with cleats shall be secured by heavy gauge, type approved metal reinforced, clips or saddles. Not more than six cables shall be embraced by one clip.

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- iv) Mild steel of appropriate sections, duly painted in an approved manner, shall be used for fabrication of cable supports. The steel shall be free from blisters, scales, laminations or other defects. Before final painting, the steel sections shall be provided with double coat of red primer.

10. CABLE PROTECTION AT OVERHEAD TOWERS OR POLES

Where the cables terminate on overhead line poles or towers located outside substation compounds the contractor shall provide suitable cable supporting galvanized steel work attached to the pole or tower and comprising backboard, runners, sheet, steel cover of not less than 3.0mm thickness, stays, cable cleats, anti climbing guard and all incidental items to provide secure protection for the cables. Isolators and Lightning arrestor. The erection and steel structure required shall also be in scope of the contractor.

11. SUN SHADES

All cables shall be protected from direct solar radiation by ventilated sun shields as approved by BSES.

12. ROUTE PLAN

- i) Contractor should get updated the GIS map of BSES of route along with joints and other obstructions.
- ii) During the progress of the contract works the contractor shall record on a set of route plans and cross section drawings of an approved

TECHNICAL SPECIFICATION FOR CABLE LAYING

form, these details so that the same can be transferred on the GPS maps. Such particulars will allow an accurate reference to be made in the case of any fault or projected modification. These records shall show, amongst other data, both indoors and outdoors the exact position of every joint, cable end termination and also the particulars of the depth of the trench, the arrangement of the cables, with cable numbers and the position of all obstructions revealed during the course of excavations. These completed records shall be submitted to BSES within 15 days of completion of any particular route/feeder.

13. SITE FACILITIES TO BE MAINTAINED BY THE CONTRACTOR

- i) The contractor shall arrange for all the tools and tackles required for cable laying, jointing testing and commissioning as per this specification.
- ii) The contractor shall arrange illumination and Power supply so that the work can be carried out round the clock.
- iii) The contractor shall maintain functional dewatering pumping facility with suitable power supply so as to protect the cables and the joints from ingress of water due to rain or otherwise
- iv) The contractor shall make arrangement to provide suitable scaffolding arrangement to carry out the termination work
- v) The contractor shall carry out proper barricading of the dug cable route and the joint bays and shall take all necessary precautions to avoid any public hazard.

TECHNICAL SPECIFICATION FOR CABLE LAYING**14. TESTING**

Following tests are to be carried out during and after completion of Cable Laying:

- i) Testing of cable before jointing –Cable shall be tested for Insulation Resistance prior to laying by opening the end and resealing end properly.
- ii) Testing on complete Cable Installation –
 - a. Insulation resistance of each core shall be measured against all the other cores and the metal screen connected to earth.
 - b. The resistance of the conductor shall be measured.
 - c. High voltage – Very Low frequency (VLF) kit shall be used for high voltage testing of complete cables length. Testing voltage and duration shall be as per IEEE 400.2 standards.
 - d. Partial discharge test shall be carried on complete cable length.
 - e. Charging of Cable at No-Load at Nominal working voltage for 24 Hours.
 - f. After laying and before termination of cable a sheath test shall be conducted for 66KV Single core Cable as under:-

At both ends the cable shall be raised from ground. From the end graphite coat over the outer PVC jacket shall be removed with a piece of glass for a length of 300mm. A spiked steel rod with an eye for attaching a wire shall be driven into the ground and connected to a nearby water or hydrant pipe. Insulation resistance of PVC

TECHNICAL SPECIFICATION FOR CABLE LAYING

jacket shall be measured between the aluminum wire armour and the spike with a 500/1000V insulation tester. Measured resistance shall not be less than 2.5 mega ohm / KM. Thereafter 10KV DC shall be applied for one minute in the same way. After the test the armour shall be kept earthed to the steel spike for 15 minutes for discharging residual charge.

- g. Any other testing required to complete the job shall be performed as per IEC standards.

15. BARRICADING AND SAFETY REQUIREMENT

- a. Dimensions of barricading- Height- 2 mtr, Length- 1.5 mtr.
- b. There shall not be any gap in between two barricades.
- c. LED Bacon light shall be placed at 1st and every 4th barricade
- d. Name, painting, color, cleanliness etc. shall be done on regular basis.
- e. Vendor to ensure that traffic management shall not be excuse of work execution. The contactor shall not undertake loading and unloading at carriageways obstructing the free flow of vehicular traffic.
- f. Full height fence, barriers, barricades etc. shall be erected around the site in order to prevent the working area from the risk of accidents due to speedy vehicular movement. In same way barricades shall protect the road users from the danger due to construction equipment and temporary structures.
- g. The structure dimensions of the barricades , material and composition, its color scheme, BSES logo and details shall be in

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accordance with specification and drawing laid down in the tender documents.

- h. All the barricades shall be erected as per the design requirements of employer, numbered painted and shall be maintained in good condition. Barricading In-charge shall maintain barricade register at site.
- i. All barricades shall be easily seen in the dark/night time by the road users so that no vehicle hits the barricades. Night vision shall be ensured by affixing retro reflective strips of required size and shape at appropriate angle at bottom and middle portion of the barricades at a minimum gap of 1000 mm. In addition minimum one red light /red blinker and red beacon light shall be placed at the top of each barricade.
- j. No dust deposit is permitted at the front side of barricades.
- k. Cable drum shall be returnable and vendor shall take it back (by buy back process or as per PO agreement) from site at their own risk and cost.
- l. Once cable lying of a drum is completed, within two days, empty drum shall be removed from site.
- m. Trained traffic marshal with all PPE and traffic control light (Red and Green) shall be placed at site for 24x7 hours.
- n. During execution of job, any damage to other agency's properties shall be counted in vendor account and necessary action shall be taken by vendor to immediate recover, repair etc.

TECHNICAL SPECIFICATION FOR CABLE LAYING

- o. Excess earth shall be removed from site after back filling. Site to be cleared to avoid flowing of dust. Barricades to be removed from site within 24 hrs after completion of job.
- p. During non working hrs vendor to ensure presence of supervisor for controlling any event from locals.
- q. PPEs
 - a. Helmets
 - b. Mask
 - c. Jacket
 - d. Safety Shoes
 - e. First Aid Box etc.

Above mentioned PPEs shall be available at site 24x7. Zero tolerance on absence of PPEs to the working personnel. No excuse shall be acceptable in this regards.

- r. EPR/Scanning shall be done by vendor of whole the route and same shall be submitted to BYPL. This work shall be done by vendor before execution of job.
- s. Lifting of cable drums with hydraulic machine, pulling of cable from top end of drum with pulling machine (hydraulic winch) is mandatory.
- t. Violation on barricading guideline and safety norms, a fine of Rs.5000 /day shall be imposed. BYPL inspector/engineer in-charge shall be empowered to impose the above penalty.
- u. Artwork & Text to be printed on barricading sheet shall be approved by BYPL prior to start of work