



अणुशक्ति विद्युत निगम लिमिटेड

Anushakti Vidhyut Nigam Limited

(एनपीसीआइएल और एनटीपीसी लिमिटेड का संयुक्त उद्यम / A Joint Venture of NPCIL and NTPC Ltd.)

माही बांसवाड़ा राजस्थान परमाणु विद्युत परियोजना

Mahi Banswara Rajasthan Atomic Power Project

पी.ओ. नप्ला, तहसील - छोटी सरवन, जिला - बांसवाड़ा, पिन 327001

P.O. Napla, Tehsil - Choti Sarwan, Distt.-Banswara, PIN 327001

Ref No. MBRAPP/CMM/2025/09/CS/02/198

Dated: 10.11.2025

623, ARCONS INFRASTRUCTURES AND CONSTRUCTION PVT LTD,
NAGPUR ROAD, CHHINDWARA,
Chhindwara, Madhya Pradesh, 480001

Attention: Sh. Kamlesh Kothari

Subject: Excavation, Confirmatory Subsoil Investigations, Consolidation Grouting and Carrying Out Concrete Levelling Course for Main Plant Structures and Other Important Structures of MBRAPP Units 1 and 2 in Distt. Banswara, Rajasthan (Package-I).

1. Ref : LOI: MBRAPP/CMM/2025/09/CS/02/142 dated 13.09.2025
2. NPCIL Tender Ref no. : NPCIL/HQ/CMM-WG/92/2024/PT/169
3. Tender ID : 2025_NPCIL_224970_1 dated
4. BG no. dated : 12760ILG002225, issue date 13.10.2025, Expiry 11.12.2028

Dear Sir (s),

Please find attached herewith Letter of Award on the subject cited above pending verification of reference PBG submitted by you. Your submitted PBG for subject tender is under verification at ASHVINI beneficiary bank. This Letter of Award(LOA) shall be valid subject to the successful verification of PBG.

However, in case of failure in verification of submitted PBG, the agency shall submit requisite PBG as per terms and conditions of the contract, failing which the LOA shall stand withdrawn.

Yours faithfully,

Sandeep Kumar Das
10/11/2025

For and on behalf of
Anushakti Vidhyut Nigam Limited (ASHVINI)
Sandeep Kumar Das
Project Director (MBRAPP)

Encl: Signed LOA- MBRAPP/CMM/2025/11/CS/02

Dated: 10.11.2025 (31 pages).



अणुशक्ति विद्युत निगम लिमिटेड

Anushakti Vidhyut Nigam Limited

(एनपीसीआईएल और एनटीपीसी लिमिटेड का संयुक्त उद्यम / A Joint Venture of NPCIL and NTPC Ltd.)

माही बांसवाड़ा राजस्थान परमाणु विद्युत परियोजना Mahi Banswara Rajasthan Atomic Power Project

पी.ओ. नप्ला, तहसील - छोटी सरवन, जिला - बांसवाड़ा, पिन 327001

P.O. Napla, Tehsil - Choti Sarwan, Distt.-Banswara, PIN 327001

LETTER OF AWARD (LOA)

Ref No. MBRAPP/CMM/2025/11/CS/02 /199

Dated: 10.11.2025

PAN	AAFCA7919L
GST Reg.	23AAFCA7919L1ZG
Bank A/c.	40519679959
IFSC	SBIN0000348
Bank Name	STATE BANK OF INDIA
Email ID	arcons1@gmail.com, tenders@arcons.co.in,

To,

Ms Arcons Infrastructures and Construction Pvt Ltd
623, ARCONS INFRASTRUCTURES AND CONSTRUCTION PVT LTD,
NAGPUR ROAD, CHHINDWARA,
Chhindwara, Madhya Pradesh, 480001

Attention: Sh. Kamlesh Kothari

W. O. No	:	MBRAPP/CMM/2025/11/CS/02 Dated- 10.11.2025
Name of Work	:	Letter of Award (LOA) for Excavation, Confirmatory Subsoil Investigations, Consolidation Grouting and Carrying Out Concrete Levelling Course for Main Plant Structures and Other Important Structures of MBRAPP Units 1and2 in Distt. Banswara, Rajasthan (Package-I).

Ref:	:	
1. Your Reference:	:	Your bid dated 08th May 2025 vide Bid No. 836687
2. NPCIL Tender Ref no.	:	NPCIL/HQ/CMM-WG/92/2024/PT/169
3. Tender ID	:	2025_NPCIL_224970_1
4. Last date of submission of Tender is 16.03.2025(NIT), 10.04.2025 (Corr.1), 24.04.2025(Corr.2), 08.05.2025.		
5. Corrigendum 7: Pre-bid clarification dated 27th March 2025		
6. Negotiation MOM: ASHVINI/MBRAPP/Site/2025/134 dated 05.09.2025		
7. LOI: MBRAPP/CMM/2025/09/CS/02/142 dated 13.09.2025		

पंजीकृत पता: 16वीं मंजिल, सेंटर-1, वर्ल्ड ट्रेड सेंटर, कफ परेड, मुंबई - 400005, महाराष्ट्र
Regd. Address: 16th Floor, Centre-1, World Trade Centre, Cuff Parade, Mumbai - 400005, Maharashtra
Anushakti Vidhyut Nigam Ltd. / अणुशक्ति विद्युत निगम लिमिटेड - CIN Number/ नंबर - U40300MH2011GOI212727

Qub

Dear Sir,

1. Reference to the above work for which the online public tender was opened. Your tender for the above work has been accepted by the competent authority on behalf of ASHVINI, Mumbai at the total amount of ₹ 384,94,29,695/- (**Rupees Three Hundred Eighty Four Crores Ninety Four Lakhs Twenty Nine Thousand Six Hundred Ninety Five Only**). This cost is inclusive of GST and all other applicable statutory taxes.

(Attached S.O.Q.R as ANNEXURE-A).

(Attached AHR ITEM LIST as ANNEXURE-B).

- GST will be paid on submission of necessary invoice as per GSTN rule. And it shall be shown separately in your invoice with HSN/SAC no. Also, you have to furnish GST declaration form along with each RA bill.
 - The payment of the taxes shall be as per prevailing rates of GST as applicable against the bills/invoices submitted duly incorporating/permitting the changes in rates in taxes and duties in view of the new GST law*, which came into effect from 01/07/2017. However, in case you have availed ITC or later on avail the same subsequently against the GST (claimed or have been paid now, whichever is used for availing ITC) with respect to these bills/invoices, you are liable to pass on the corresponding additional benefit on this account to the purchaser and should therefore be passed on as and when availed”
“New GST law here means CGST, IGST acts of the Central Government and the relevant SGST/UTGST act of the State government/Union territories as applicable”
The Contractor shall submit a declaration as per format attached while presenting invoices for payment.
2. Date of commencement of the work will be reckoned as **13.10.2025**. You are requested to complete the entire work within the period of **730 calendar days** (including monsoon period). The time shall be essence of the contract and the work shall be completed as per the approved programme of work
 3. **Shri K P Prasad, Dy. CE, MBRAPP** will be the Engineer-in-Charge of the work. You are requested to meet him regarding further instructions and making necessary arrangements to start the work.
 4. The rates quoted by you are for complete items of work, including materials, consumables, temporary arrangements, labour, testing of materials, incidental charges, etc. as mentioned in the tender document.
 5. (a) The work will be carried out by you, strictly in accordance with the terms and conditions specified in the tender, technical specifications (Section –V) and other correspondences mentioned under reference above in the best workman like manner.

(b) The material required for completion of work shall be of the best quality, make, grade, conforming to relevant Indian Standard Specifications (latest edition), wherever applicable and as approved by the Engineer-in-Charge.
 6. You should observe all security rules enforced or as modified from time to time by Anushakti Vidhyut Nigam Limited for regular entry and exit for the workmen and also for the materials and equipment.
 7. You may please note that the service has to be provided in close coordination with various officers/employees of ASHVINI.
 8. You are requested to ensure that your authorized qualified persons (as laid down in the tender document) are always available as and when required during the contract period.

9. (a) All conditions mentioned in the tender along with Special Conditions, General Conditions, and Technical Specification i.e., Section III, IV & V) of the contract, will be applicable.
(b) Penalty will be charged as shown in Section III and Schedule A in addition to already indicated vide general conditions of contract, i.e. Section IV.
10. Security Deposit shall be 5% of the contract value.
You may please note that the security Deposit will be ₹ 19,24,71,485 /- (5 % of the Contract value, including GST). Initially, you will have to submit a performance Guarantee for ₹ 9,62,35,742/- in the form of a bank guarantee or FDR within 30 days after issue of the work order/LOI and the remaining SD as retention money of ₹ 9,62,35,743 /- will be recovered from the RA Bill/Final Bill @ 6% of each bill amount. The security deposit amount will not bear any interest.

Performance Bank Guarantee to be submitted through physical BG, details are as follows:

NO.	Description	Details
1	Beneficiary PAN	AAJCA9421F
2	Beneficiary NAME	Anushakti Vidhyut Nigam Limited
3	Date of Incorporation	27/01/2011
4	Legal Constitution of the party	Company
5	Registered office address	16th Floor, Centre-1, World Trade Centre, Cuff Parade, Mumbai – 400005, Maharashtra
6	Registered office address Pin code	400005
7	Communication address*	MBRAPP, ASHVINI, PO Napla, Tehsil Chhoti Sarwan, District Banswara, Rajasthan 327001
8	Communication address Pin code*	327001
9	Bank Name	State Bank of India
10	Branch	BANSWARA (06741)
11	Bank address	MOHAN COLONY BANSWARA BANSWARA, RAJASTHAN - 372001
12	IFSC Code	SBIN0006741
13	Account number:	44466210002
14	Branch E-mail	sbi.06741@sbi.co.in

Bank/Performance guarantee submitted by the contractor is subject to verification by ASHVINI directly through the SBI Banswara i.e. Beneficiary Bank of ASHVINI.

Defect liability period for this work will be as per Schedule A.

11. You are requested to intimate the maximum No. of workers proposed to be employed for this work immediately. Principal Employer's Certificate for obtaining labour license based on the maximum number of workers you propose to employ for this work shall be issued. You may note that you will have to apply to the Assistant Labour Commissioner for a labour license for the maximum number of workers you had indicated to engage on the work within one week from the date of commencement of work. A copy of the application will have to be furnished to the Engineer-in-Charge of the work.
12. The Contractor shall comply with the provisions of The Payment of Wages Act, 1936, The Minimum Wages Act, 1948, The Employer's Liability Act, 1938, The Workmen's Compensation Act, 1923, The Industrial Disputes Act, 1947, The Maternity Benefit Act, 1961, The Mines Act, 1952, The Contract

labour (Regulation & Abolition) Act, 1970, or any modifications thereof or any other law relating thereto and rules framed there under from time to time.

13. The Contractor shall pay to labour employed by him, wages in accordance with the rules, regulations, Contract Conditions as per the relevant clause of Section-III.
14. You may please note that time will be essence of the contract, failing which a compensation for delay will be imposed as per Clause No. 7.7 of General Conditions of Contract. i.e., Section-IV.
15. Income Tax, GST/TDS and other Taxes as applicable will be deducted at source from your running account bill / final bill as per rates prescribed by the Government from time to time.
16. Escalation of payment will be as per GCC Clause No. 11.3 and Schedule – A of Tender documents. (if Applicable)
17. The Contractor shall provide the following:
 - a) Workmen Compensation Policy/ESIC Policy as per Schedule A.
 - b) Third Party Liability Policy as per Schedule A.
 - c) CAR policy as per Schedule A
 - d) Copy of EPF, PAN, GST Registration no.
 - e) GST Declaration form with HSN Code with each invoice.
 - f) W.O. acceptance copy.
 - g) Labour Licence, if applicable.

18. DOCUMENTS TO BE SUBMITTED AT DIFFERENT STAGES OF WORK EXECUTION:

A) Before commencement of work:

The Contractor shall submit following documents to Engineer-in- Charge before commencements of work.

- a. Work order / LOI / Contract Order / Sanction Order acceptance letter.
- b. Application for issue of Principal Employer's Certificate (Form-III) for getting a Labour license, if applicable.
- c. For the Contracts covered under BOCW Act and BOCW Cess Act, the contractor must get themselves registered under the Act. The copy of registration along with the Challan of Cess paid shall be submitted to Engineer-in- Charge.
- d. Original Insurance Policies along with premium receipts
 - I. Contractor's All Risk Insurance policy for the whole contract value (Including GST) including insurance for Third Party Liability for 10% of the contract value as per the applicability.
 - II. ESI document indicating the names of persons covered under the ESI scheme OR Workmen Compensation Policy OR both as per the applicability.
- e. Performance guarantee as per clause 4.2.3 of General Conditions of Contract.

B) For payment of the RA Bill,

The contractor shall submit the following documents along with first RA bill to EIC.

- a. Labour license wherever applicable (along with first RA Bill only).
- b. GST registration Copy as per GST Act (along with first RA Bill only).
- c. Declaration form for GST (Annexure-H of SCC).
- d. Proof of previous month GST remittance.

- e. Copy of registration of EPF for firm along with the Universal EPFO account number (UAN) of all the employees, which shall be linked to KYC details such as Aadhaar number, Mobile number and bank account number (along with first RA Bill only).
- f. Partnership deed of firm in case of partnership firm or power of attorney of the representative in case of company (along with first RA Bill only).
- g. Bank account details of the contractor for payment (along with first RA Bill only).
- h. Copy of PAN card (along with first RA Bill only).
- i. Record of uniform distribution duly signed by the Contractor and each of his workers. Proforma is enclosed as Annexure-D of SCC.
- j. Copy of wage register witnessed by ASHVINI representative for the bill period and bank transfer details.
- k. Monthly wage certificate issued by HR.
- l. Documentary proof of previous month EPF deposition showing statement for each UAN.
- m. Copy of ESIC registration details.
- n. Tax invoice/e-invoice or undertaking of e-invoice in triplicate.
- o. Documentary proof of previous month ESI deposition including employee wise details of remittance, if applicable.
- p. Proof of previous month BOCW Cess remittance if applicable.
- q. Signed Annexure- G for Pradhan Mantri Rojgar Protsahan Yojana (PMRPY) Scheme undertaking if applicable (along with first RA Bill).
- r. Tax Invoice / E-invoice (in case turnover of the party has exceeded Rs.5 crore in any of the previous 3 consecutive financial years i.e., 2022-23, 2023-24, 2024-25, an undertaking need to be given stating not exceeded the prescribed limit for E-invoice).
- s. GST declaration and GST challan of previous bill period (to be submitted from second R.A. bill).
- t. Any other documents/clarification as required by paying authority.
- u. Professional tax registration number (if applicable).

C) For payment of the Final Bill:

The following documents shall be submitted in addition to those required for RA bills:

- a. No claim declaration by the Contractor
- b. Indemnification by the Contractor regarding compliance of EPF & MP Act, 1952
- c. No dues certificates if any.
- d. Signed Annexure- G for PMRPY Scheme undertaking.
- e. Indemnification by the Contractor regarding compliance of BOCW Act, 1996, if applicable.
- f. Wages certificate from HR section up to actual date of completion.
- g. Any other relevant document required by ASHVINI.

D) Compliances by the bidders on statutory requirement:

a) RA Bill / Final Bill:

The Contractor will be continuously monitored and Running Account Bills/ Final Bill of the Contractor will be withheld if they fail to comply with statutory provisions as mentioned in the General Conditions of Contract or any other contract document.

b) Release of PBG / SD:

Release of PBG & SD will be after the satisfactory completion of the including all statutory compliances as certified by the Engineer in Charge.

19. You are requested to submit the partnership deed, if any, on a judicial stamp paper and inform the name of your authorized representative who will deal with all the matters regarding the material and work.

Quiter

20. The agreement will be executed between you and ASHVINI before release of 1st RA Bill as per relevant clause of Section- III of the tender document, till the agreement is executed, your tender and this work order along with your all correspondences will form a binding contract between you and Anushakti Vidhyut Nigam Limited.
21. You are requested to inform the name of the authorized representative who will deal with all matters relating to the contract, and the power of attorney in his favour duly executed on stamped paper of an appropriate value shall be furnished.
22. All other terms & conditions not specifically brought out in this work order shall be governed as per tender document.
23. Please acknowledge the receipt of this Work order and accept the contents of work order immediately.

Sandeep Kumar Das
10/11/2025

Sandeep Kumar Das
Project Director (MBRAPP)
For and on behalf of
Anushakti Vidhyut Nigam Limited

Enclosed:

1. **Annexure - A** - Schedule of Quantities & Rates
2. **Annexure - B** – AHR item list

Copy by email to:

1. CEO (ASHVINI)
2. CCE (MBRAPP)
3. Head, C&MM (MBRAPP)
4. Work Head, C&MM, NPCIL HQ
5. Engineer-in-charge
6. CFO ASHVINI
7. Sr. Manager (F&A)

Declaration Form for GST

The Supplier/Contractor while submitting their bill to the Paying Authority, shall furnish the following Certificates: Certified that: (Please Tick all appropriate boxes)

- ☐ (a) Additional Input Tax Credit under GST availed against invoices submitted here under is Rs. _____
- ☐ (b) Certified that the goods and services on which GST has been charged are not exempted under the GST Act or the rules made there under and the amount charged on account of GST on these goods and services are not more than what is payable under the relevant act or the rules there under.
- ☐ (c) Certified that we have taken into account all input tax credits available under GST and have not loaded the same in the basic price while furnishing their bids.
- ☐ (d) Certified that in respect of amount of taxes claimed in the bill, no claim is pending for refund/or is admissible for refund from any other agency and /or no other tax credit is available in respect of the same. In the event of getting refund in whole or in part of the element of GST claimed from the Government, the same shall be passed on the benefit to the Purchaser by remitting the amount equivalent to the amount of refund obtained.
- ☐ (e) Certified that the GST charged herein the invoices has been/ shall be deposited within the due date and the Invoice details have been / shall be populated in GSTR1/ANX-1 of the GSTN portal, facilitating Input Tax Credit to the Purchaser.
- ☐ (f) Certified that we have complied with the Anti-profiteering measure provisions under CGST/SGST/UTGST Acts and passed on commensurate reduction of price to the purchaser.
- ☐ (g) Certified that a quarterly statement shall be submitted to ASHVINI confirming the payment of GST invoiced on ASHVINI along with copy of GST paid Challan.
- ☐ (h) Certified that in case of any change in the Invoice which has been accepted by the Purchaser in the IMS portal the corresponding amendment in the Original Invoice shall be made by the Supplier/Contractor by raising Debit Note/Credit Note or any other document, as applicable within the timelines stipulated under the GST Act.

Declaration Form for TDS

The Supplier/Contractor, while submitting their bill to the Paying Authority, shall furnish the following certificates: Certified that: (Please Tick all appropriate boxes):

- ☐ (a) Whether Provisions of Section 194Q are applicable (**For Supply of Goods worth 50 Lakhs p.a**): YES/NO
- ☐ (b) We have filed the return of income for the previous 2 years (AY _____ & AY _____) preceding the year in which tax is liable to be deducted, within the prescribed time limit and hence, confirm that the applicable rate of TDS is at Normal Rate (0.1% as on date)
- ☐ (c) We have linked the PAN to Aadhar, and the PAN is not inoperative (applicable in case of Individuals)

Incomplete information against point (a), (b) & (c) above under Declaration form for TDS, shall be subject to deduction of tax at higher rate as applicable (5% as on date)

Signature of Contractor or their Authorized Representative with company seal.

Name of the Work: Excavation, confirmatory subsoil Investigations, consolidation grouting and carrying out concrete levelling course for Main plant structures and other important structures of MBRAPP Units 1&2 in Distt. Banswara, Rajasthan (Package-I)
Tender No: NPCIL/HQ/CMM-WG/92/2024/PT/169
Work Order No.: MBRAPP/CMM/2025/11/CS/02 Dated- 10.11.2025
Name of Bidder: M/s. Arcons Infrastructures and Construction Pvt Ltd

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
1.00	EARTHWORK SITE CLEARANCE: Clearing the site by cutting, uprooting and removal of shrubs, bushes, weeds and trees up to girth of 300 mm (measured at a height of 1 M above ground) and disposal of the same in safe way to prevent fire hazard to far away place up to a lead of 2000 m from the site and as directed by the Engineer-in-Charge	6,00,000	SQ.M.	57.50	3,45,00,000.00
2.00	EARTHWORK Enumeration, cutting & removing trees (including roots) of various sizes, converting the tree trunks into logs, firewood and poles etc. as directed by the Engineer-in-Charge, transporting the converted wood to the NPCIL store yard within a distance of 1000 m and stacking it neatly etc. complete. Note: Trees below 300 mm girth sizes is covered under site clearance item. Girth will be measured 1 M above the ground level.				-
2.01	All types of trees above 300 mm up to 600 mm girth sizes	280	Nos.	626.00	1,75,280.00
2.02	All types of trees above 600 mm up to 1200 mm girth sizes	40	Nos.	2,788.00	1,11,520.00
2.03	All types of trees above 1200 mm up to 2400 mm girth sizes	70	Nos.	8,699.00	6,08,930.00
3.00	EXCAVATION: Excavation in all type of soils & loose/soft rock (Rocks of Weathering Grade IV, V & VI of IS 11315 Part 5) including top soil, hard murrum or other hard soil mixed clay, soft disintegrated rock not requiring blasting in general area grading, roads and drainage work, all main plant buildings and other structures, foundations, tunnels and trenches etc. including shoring and strutting as required, stacking the useful/ serviceable				-

पंजीकृत पता: 16वीं मंजिल, सेंटर-1, वर्ल्ड ट्रेड सेंटर, कफ परेड, मुंबई - 400005, महाराष्ट्र

Regd. Address: 16th Floor, Centre-1, World Trade Centre, Cuff Parade, Mumbai - 400005, Maharashtra

Anushakti Vidyut Nigam Ltd. / अणुशक्ति विद्युत निगम लिमिटेड - CIN Number/ नंबर - U40300MH2011GOI212727

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	materials & disposal of the excavated muck in proper stacks as directed by the Engineer-in-Charge for all lifts and up to a lead of 1500 m for the depths as specified in item 3.01 and 3.02 below the existing ground level. Note: 1. The quoted rate shall include the cost of draining and pumping out surface water (i.e. water other than water below ground water table), lowering of ground water table to maintain dry working conditions till completion of all activities (such as concreting, curing, water proofing, filling / testing etc.), which require dry working conditions providing sheeting, shoring, strutting, bracing, trimming of excavated bottom, testing, with all labour, material, equipment, handling, transportation, preparation of the scheme for excavation and dewatering and getting the same approved, etc., for all types of work, at all levels, all complete, as per specifications, drawings and instructions of the Engineer, for all lifts. 2. It shall also include the preparation of detailed excavation scheme (detailing about proposed excavation, de-watering, carriage, disposal, and stacking of the earthwork), planning and scheduling each stage part-wise and to be approved by EIC and thus commencing the work only after approval. 3. The average E.G.L (Existing Ground Level) of the site varies from R.L. 296 m to R.L 316 m. 4. Reduced Level 300 M corresponds to the EL of 99.7 m, which may be subjected to change during course of project.				
3.01	From Existing Ground Level to Reduced Level 300 m	45,00,000	CU.M.	121.00	54,45,00,000.00
3.02	Below Reduced Level 300 m (up to the depth as specified in drawings or as instructed by Engineer-in-Charge)	10,00,000	CU.M.	124.00	12,40,00,000.00
3.03	Slope Stability Analysis: Conducting slope stability and safety analysis by expert agency such as NIRM/GSI/IITs for the excavated trenches or proposed excavated trenches, stacked serviceable and unserviceable materials or proposed stacking of serviceable & unserviceable materials, surrounding soil, adjacent structures, pits, services and the work areas. The detailed study along with report should recommend the	1	Nos.	1,73,62,485.00	1,73,62,485.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	scientific arrangement of slope protection with detailed design calculations/drawing/scheme and technique to be adopted including provision of planning for geotextiles, shoring, cofferdam, or any other techniques desirable for safety and stability of the above applicable area throughout the contract. The same shall be approved by Engineer-in-Charge. Note: 1. The study shall be comprehensive and is to be presented in part or in full as applicable to each proposed or excavated or stacked area. 2. The report shall comprehend and supplement the excavation scheme prepared by the contractor under item 3 & 5				
3.04	Slope protection: Providing and laying of protective covering/measures as suggested in the part-reports/report of the Slope Stability & Safety Analysis in item 3.03 including any geotextile/non-geotextile based protection at all heights/lifts for all collapsible and non-collapsible layers of the excavated trenches/pits/work area or for the stack of any serviceable/unserviceable materials as directed by Engineer -in-charge. Note: 1. The quoted rate shall include complete cost from supply of materials to the final implementation of protecting the slopes 2. It shall also include any cost that may incur due to rework if required for any reason such as climatic factor, poor workmanship, etc. 3. The unit of payment is effective area covered in square meters which includes any over lapping or so and no separate payment for the same would be made	1,20,000	SQ.M.	231.00	2,77,20,000.00
4.00	Blast Charge Studies Conduct blast-charge studies through specialized agency like NIRM / CWPRS / GSI, as per technical specifications before commencing blasting for excavation in hard rock. The report should recommend the safe charge for limiting the peak particle velocity in permissible limits for various distances as per technical specifications. The specialised agency shall also suggest suitable method of muffling to avoid flying of rock/ rock pieces/ fragments during blasting. Note: Preparatory works involving tree	2	Lumps um	1,49,17,281.00	2,98,34,562.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	cutting, pit excavation etc. shall be paid under relevant items.				
5.00	EXCAVATION: Carrying out excavation in hard rock requiring controlled blasting as per Blast charge studies mentioned in item no. 4, by controlling of peak particle velocity including muffling wherever required, for general area grading, all main plant buildings and other structures, foundations, tunnels & trenches including stacking the useful/ serviceable material and disposal of excavated muck in places as directed up to a lead of 1500 m. as per technical specifications. Note: 1. The rate quoted shall include continuous monitoring of blast vibration levels during blasting for main plant excavation works through the same specialised agency as in item no. 4, on requirement basis by deploying standard seismograph. It shall also consists of collecting and submitting data pertaining to monitored vibration report along with air over pressure values on requirement basis at the locations as directed by the Engineer-in-Charge. 2. It shall also include the cost of draining and pumping out surface water (i.e. water other than water below ground water table), lowering of ground water table to maintain dry working conditions till completion of all activities (such as concreting, curing, water proofing, filling / testing etc.), which require dry working conditions providing sheeting, shoring, strutting, bracing, trimming of excavated bottom, testing, with all labour, material, equipment, handling, transportation, preparation of the scheme for excavation and dewatering and getting the same approved, etc., for all types of work, at all levels, all complete, as per specifications, drawings and instructions of the Engineer, for all lifts. 3. It shall also include the preparation of detailed excavation scheme (detailing about proposed excavation, de-watering, carriage, disposal, and stacking of the earthwork), planning and scheduling each stage part-wise and to be approved by EIC and thus commencing the work only after approval. 4. The average E.G.L (Existing Ground Level) of the site varies from R.L. 296 m to R.L 316				-

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	m. 5. Reduced Level 300 M corresponds to the EL of 99.7 m, which may be subjected to change during course of project. 6. This shall also include excavation of last 150 mm above final excavation level which is required to be carried out by mechanical/manual chiselling to prevent over excavation, damage to foundation strata, obtain an even surface and shall not be measured under Item No. 6 below. 7. No payment shall be made to contractor for over excavation due to any reason, if any occurs, the contractor shall provide for laying of PCC as described in item no. 33 up to the desired level or as instructed by EIC at no extra cost				
5.01	From Existing Ground Level to Reduced Level 300 m	15,00,000	CU.M.	551.00	82,65,00,000.00
5.02	Below Reduced Level 300 m (up to the depth as specified in drawings or as instructed by Engineer-in-Charge)	8,00,000	CU.M.	777.00	62,16,00,000.00
6.00	EXCAVATION: Excavation in hard rock by other means viz. mechanical rock breaker/ hydraulic splitting/using expansive grouts/chiselling etc. in general areas, main plant buildings and other structures, foundations, tunnels and trenches, areas as instructed by EIC, where blasting is not permitted, stacking serviceable materials and disposal of excavated muck in places up to the lead of 1500 m. and for all depths below existing ground level.	30,000	CU.M.	1,010.00	3,03,00,000.00
7.00	CARRIAGE OF MATERIAL: Extra for additional lead over the first 1500 m lead for stacking the serviceable materials and disposal of excavated muck obtained from item 3.01, 3.02, 5.01, 5.02, 6 and 8.01 Note: For the lead up to 1500 meters is already covered under relevant items no 3.01, 3.02, 5.01, 5.02, 6 and 8.01				-
7.01	Additional lead beyond 1500 m up to 3500 m	34,00,000	CU.M.	23.00	7,82,00,000.00
7.02	Additional lead beyond 3500 m up to 4500 m	38,00,000	CU.M.	14.00	5,32,00,000.00
7.03	Extra for every additional Lead of 500 m or part thereof beyond 4500 m.	12,00,000	CU.M.	11.00	1,32,00,000.00
8.00	EXCAVATION: Line/Perimeter drilling and pre-shearing for vertical faces of excavation in rock to the depth as specified in drawings and as directed				-

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	by the Engineer-in-Charge, in all locations for main plant buildings and other structures as directed by the Engineer-in-Charge. 1. The quoted rate shall include any cost for deployment (mobilization and demobilization) of any equipment, tools, machinery, item, labour, etc essential for performing the task. 2. It shall also include the preparation of detailed excavation scheme (detailing about proposed excavation, de-watering, carriage, disposal, and stacking of the earthwork), planning and scheduling each stage part-wise and to be approved by EIC and thus commencing the work only after approval. 3. It shall include the cost for scientific disposal of the excavated material up to the distance of 1500 meters as per approved excavation scheme as or instructed by EIC.				
8.01	Line drilling/Perimeter Drilling & Preshearing	5,500	SQ.M.	2,563.00	1,40,96,500.00
9.00	DEWATERING: Deploying electrical/diesel operated dewatering equipment's including all machines/ equipment's, DG sets, pipe lines etc. functionally required for de-watering including installation, setting it to work, commissioning, decommissioning and removal from site after completion of work as per the technical specifications, approved scheme and as per instructions of the Engineer-in-Charge. Note: 1. This is one time payment for deployment of the above listed equipment and accessories, no separate payment is to be made for any re-deployment, shifting, modification, alterations, replacement, etc. as the quoted rate shall include it. 2. The payment is to be made only after successful deployment of all the equipment's and accessories as per the approved de-watering scheme or as directed by Engineer-in-Charge.	1	LUMP SUM	1,53,78,641.00	1,53,78,641.00
10.00	DEWATERING: De-watering of accumulated rain and ground water in excavated areas/ pits as per technical specifications, approved de-watering scheme, requirement basis or as instructed by Engineer-in-charge for all main plant buildings and other structures and miscellaneous foundation structures including				-

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	running and maintaining the de-watering system/ equipment, together with the cost of spares as required. Measurement shall be based on energy meter readings. Note: 1. The surface runoff from the surrounding area shall not be allowed to flow into excavated pit by providing suitable bunds/ drains. The quoted rate shall include provision of these diversion measures 2. These item shall only operate over and above the water for which de-watering is already considered under item no. 3 and 5. Thus, the de-watering beyond the scope of item no. 3 and 5 shall be paid here.				
10.01	Using Electrical pumps	5,00,000	KWHr	28.00	1,40,00,000.00
10.02	Using Diesel pumps	50,000	KWHr	33.70	16,85,000.00
11.00	GEOLOGICAL MAPPING: Carrying out cleaning, washing and removal of loose materials by compressed air & brush, by manual means etc. on hard rock or weathered rock at founding level (FL) or finished excavation levels as applicable for various main plant buildings and other structures after excavation of hard rock or weathered rock exposed surfaces including horizontal / vertical / inclined surfaces and as directed by Engineer-in-Charge for facilitating geological mapping. Note: The execution of this task for exposed surfaces, as per the drawings or as instructed by EIC, shall be planned to minimize the need for repeated cleaning, washing, and removal of loose material. Any costs incurred due to such repetitions will not be paid separately.	1,30,000	SQ.M.	93.00	1,20,90,000.00
12.00	GEOLOGICAL MAPPING: Conducting geological mapping on hard rock or weathered rock at founding level (FL) or finished excavation levels as applicable of various main plant buildings and other structures after excavation all exposed surfaces including horizontal / vertical / inclined surfaces by a qualified geologist/personnels from Government agencies like NIRM/ GSI and submission of final reports in triplicate and soft copy (editable) complete as directed by the Engineer-in-Charge. Mapping shall include horizontal, inclined and vertical surfaces.	65,000	SQ.M.	194.00	1,26,10,000.00
13.00	CONFIRMATORY SUB-SOIL INVESTIGATIONS: Locating bore holes, shifting & setting up of	170	Nos.	46,200.00	78,54,000.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	drilling equipment at each of the drill locations within main plant boundary, including following activities: 1. Conducting survey and locating the boreholes as per the drawing and as directed by Engineer-in-Charge by using total station with all accessories. The location of the boreholes to be identified based on the coordinates provided in the drawing by transferring the coordinates from the marked up points given in the drawing/ shown by Engineer-in-Charge along with grid / bench mark. The distance of survey traverse will be approximately 2.5 KM. Use of GPS instruments for locating bore holes shall not be acceptable, however, it may be used as a confirmatory system only. 2. Making temporary access roads as required to the boring/ drilling locations from existing approach roads to site. 3. Arranging water supply for the drilling and testing. 4. This item shall be operated only once for each bore hole. Any replacement or change of equipment needed due to any reasons, contractor shall carry out at his own cost. 5. Required site clearance, earthwork etc. suiting for mounting of the equipment and creating working environment. 6. No extra payment shall be made for any criss-cross or back and forth movement of the rig after setting, required for proper positioning, including marking the drill hole location on ground by actual survey, as per the drawing or instructions of the Engineer-in-Charge.				
14.00	CONFIRMATORY SUB-SOIL INVESTIGATIONS: Rotary boring/ drilling of 'SX' size holes vertically to log and collect samples through all kinds of soils and weathered rock with adequate and suitable equipment for all depths as per specifications, drawings and as directed by the Engineer-in-Charge. Note: The quoted rate shall include the following: 1. Mobilization and demobilization of adequate numbers of suitable boring and drilling rigs of hydraulic type, including necessary drilling rods, pumps, miscellaneous equipment, tools, spares, consumables etc.	300	RM	2,330.00	6,99,000.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	adequate for each set of borehole/s, survey equipment, etc. Additional rigs and equipment shall be mobilized by contractor, if needed, for timely completion of the work at his own cost.. 2. Deployment of technical, skilled, semi skilled & unskilled man power required for carrying out the complete work as per specifications & drawings. 3. Providing suitable temporary removable casing for ensuring stability of boreholes in soil/ weathered rock. 4. Collecting and preserving the obtained soil/rock sample depth-wise in the corebox of the specified borehole. Specification and cost of the coreboxes is already covered under item no. 15 below. 5. Measurement of ground water level as per specifications & drawings. 6. Preparation and Maintenance of drilling records, field core logs and submission of final geological logs in hardcopy as well as soft copy (editable). 7. Conducting Standard Penetration Test (SPT) as per IS 2131 in the bore holes in soil @ every 1.5m depth or as specified in the drawings. 8.Collection of soil/weathered rock samples (disturbed or undisturbed as applicable) at the depth and in quantity as specified in the drawing and as directed by EIC, maintaining records of each, transporting the sealed and preserved sample/s in original condition to the approved laboratory as per the technical specification or applicable IS Code for the tests mentioned under Item No. 18, 19, and 20 as applicable. 9. This shall include transporting the tested sample back to the site for preservation/record purpose in the condition as obtained immediately after performing the applicable test/s as per drawings, technical specification, etc. under Item No. 18, 19 and 20				
15.00	CONFIRMATORY SUB-SOIL INVESTIGATIONS: Same as above item but with NX size holes in rock formations (excluding carrying out SPT) including collection, enumeration and logging of cores, supply of core boxes made of seasoned timber or any other durable material as per IS: 4078 for storing core samples,				-

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	painting, labelling of boxes, putting core samples in the boxes, labelling of cores samples, colour photographs (100mm x 150 mm) of boxes with core samples placed inside the boxes and transporting and storing in core samples library at location indicated by Engineer-in-Charge, measurement of ground water level etc. complete as per specifications & drawings. Note: The quoted rate shall include: 1. Mobilization and demobilization of adequate numbers of suitable boring and drilling rigs of hydraulic type, including necessary drilling rods, pumps, miscellaneous equipment, tools, spares, consumables etc. adequate for each set of borehole/s, survey equipment, etc. Additional rigs and equipment shall be mobilized by contractor, if needed, for timely completion of the work at his own cost. 2. Deployment of technical, skilled, semi skilled & unskilled man power required for carrying out the complete work as per specifications & drawings. 3. Collection of rock samples at the depth and in condition as specified in the drawing and as directed by EIC and sealing, preserving, and maintaining records of each before transporting to the approved laboratory as per the technical specification or applicable IS Code for the tests mentioned under Item No. 19 and 20. 4. This shall include transporting the tested sample back to the site for preservation/record purpose in the condition as obtained immediately after performing the applicable test/s as per drawings, technical specification, etc. under Item No.19 and 20 5.The portion of rock core sample collected for testing from the core obtained shall be replaced with suitable dummy material (like PVC Pipe) of similar dimension, labelled and to be kept in core boxes. 6. The payment for the item would be paid in full if core recovery (CR) is greater than 50% , otherwise proportionate rate will be applicable for cases where CR is less than 50%. 7. Measurement of ground water level as per specifications & drawings. 8. Preparation and Maintenance of drilling records, field core logs and submission of final				

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	geological logs in hardcopy as well as soft copy (editable).				
15.01	From rock level to 20 M	2,550	RM	2,796.00	71,29,800.00
15.02	> 20 M to 40 M	1,380	RM	3,573.00	49,30,740.00
15.03	>40 M to 60 M	230	RM	4,350.00	10,00,500.00
15.04	>60 M to 80 M	160	RM	5,126.00	8,20,160.00
15.05	>80 M to 100 M	160	RM	5,359.00	8,57,440.00
16.00	CONFIRMATORY SUB-SOIL INVESTIGATIONS: Same as item no. 15 except the Rotary boring/drilling of 'NX' size holes vertically is through PCC (M15 grade) with adequate and suitable equipment for all depths as per drawings and as directed by the Engineer-in-Charge. Note: The quoted rate shall include the following: 1. Mobilization and demobilization of adequate numbers of suitable boring and drilling rigs of hydraulic type, including necessary drilling rods, pumps, miscellaneous equipment, tools, spares, consumables etc. adequate for each set of borehole/s, survey equipment, etc. Additional rigs and equipment shall be mobilized by contractor, if needed, for timely completion of the work at his own cost. 2. Deployment of technical, skilled, semi skilled & unskilled man power required for carrying out the complete work as per specifications & drawings. 3. Maintenance of drilling records and submission of final Concrete core logs in hardcopy as well as soft copy (editable). 4. Measurement of ground water level as per specifications & drawings. 5. Preparation and Maintenance of drilling records, field core logs and submission of final geological logs in hardcopy as well as soft copy (editable).	1,500	RM	2,796.00	41,94,000.00
17.00	Plugging of bore holes as per technical specifications and as directed by Engineer-in-Charge using 1:2 cement-sand (weigh batched) grout for the holes drilled in soil/rock/PCC. Note: 1. The plugging of the hole shall be done using a tremie extending up to bottom of the hole and raising the same as the grouting proceeds. 2. The payment will be made in running metre for the depth of bore holes plugged. 3. The rate shall include the cost for cleaning	6,280	RM	280.00	17,58,400.00

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	the boreholes if blocked any, and the clearance for complete drilled depth must be ensured before plugging. 4. Plugging records shall be maintained in register and same shall be submitted to the Engineer-in-Charge				
18.00	LABORATORY TESTS ON SOIL SAMPLES: Carrying out laboratory tests on soil samples in an NABL approved laboratory (pre-qualified or to be qualified by NPCIL), complete as per specifications and as directed by Engineer-in-Charge, including necessary transportation of samples in the unaltered condition to approved laboratories wherever required and preparation and submission of test reports in triplicate and one soft copy (editable).				-
18.01	Conducting grain size analysis, particle size & percent fines distribution of soil and soil classification (IS 1498), (sieve analysis & hydrometer or pipette analysis) including grain size distribution curve as per drawings, specifications, IS 2720 (part-4) and as directed by the Engineer-in-Charge.	10	Nos.	15,378.00	1,53,780.00
18.02	Conducting index properties of soil such as liquid limit, plastic limit and plasticity index etc as per drawings, specification, IS 2720 (Part 5), IS 9259 and direction of the Engineer-in-Charge. Three tests of each soil sample will be considered as one set.	10	Set	15,378.00	1,53,780.00
18.03	Conducting CBR test on soil samples as per drawings, specifications, IS 2720 (Part 16) and as directed by the Engineer-in-Charge.	5	Nos.	15,378.00	76,890.00
19.00	LABORATORY TESTS ON ROCK CORE SAMPLES: Carrying out laboratory tests on rock samples in an NABL approved laboratory (pre-qualified or to be qualified by NPCIL), complete as per specifications/IS Codes and as directed by Engineer-in-Charge, including necessary transportation of samples in the unaltered condition to approved laboratories wherever required and preparation and submission of test reports in triplicate and one soft copy (editable).				-
19.01	Dry/Bulk density as per IS 13030 as specified in the drawing or as directed by the EIC	340	Nos.	7,689.00	26,14,260.00
19.02	Specific gravity as per IS 1122 as specified in the drawing or as directed by the EIC	40	Nos.	15,378.00	6,15,120.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
19.03	Uniaxial compression test as per IS 9143 to determine un-confined compressive strength, Young's Modulus E and Poisson's ratio as per IS 9221 (With/Without Saturation of samples as applicable) as specified in the drawing or as directed by the EIC	720	Nos.	7,689.00	55,36,080.00
19.04	Tensile test by Point load method as per IS 8764 (With/Without Saturation of samples as applicable) as specified in the drawing or as directed by the EIC	80	Nos.	15,378.00	12,30,240.00
19.05	Conducting Triaxial compression strength with internal pressure up to 80 kg/cm ² as per IS 13047 (With/Without Saturation of samples as applicable) as specified in the drawing or as directed by the EIC Note: For measurement, one set means 3 samples with 3 different confining pressures.	15	Set	15,378.00	2,30,670.00
19.06	Determination of water absorption as per IS 1124 and porosity as per IS 13030 as specified in the drawing or as directed by the EIC	10	Nos	15,378.00	1,53,780.00
20.00	CHEMICAL ANALYSIS TEST ON ROCK CORE SAMPLES: Conducting chemical analysis as per relevant IS Codes for the qualification of excavated rock as a material for Coarse aggregate to be used in the Concrete.				-
20.01	Testing for deleterious materials as per IS : 2386 (Part - 2)	10	Nos	3,446.00	34,460.00
20.02	Test for Alkali Aggregate Reaction as per IS: 2386 (Part-7) a) By Chemical method	10	Nos	3,230.00	32,300.00
20.03	Test for Alkali Aggregate Reaction as per IS: 2386 (Part-7) b) Mortar Bar method at 38 degree C regime	10	Nos	10,282.00	1,02,820.00
20.04	Test for Alkali Aggregate Reaction as per IS: 2386 (Part-7) c) Mortar Bar method at 60° C regime	10	Nos	10,134.00	1,01,340.00
20.05	Chemical analysis as per IS 2386 for Total alkali content as Na ₂ O equivalent, Total Sulphate content as SO ₃ , Acid soluble chloride content as per IS: 383	10	Nos	3,427.00	34,270.00
20.06	Soundness of Aggregate tested with Sodium Sulphate and Magnesium Sulphate, as per IS: 2386 (Part 5)	10	Nos	3,703.00	37,030.00
20.07	Detailed petrographic examination of core including grinding thin sections for study under electronic microscope, taking photo (micro-graphs) of sections and assessment for strained quartz etc complete for including in the report and submission of report.	4	Nos	5,00,000.00	20,00,000.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
20.08	Sonic velocity (High frequency ultrasonic pulse technique) by ASTM : D2845 method	84	Nos	1,593.00	1,33,812.00
21.00	FIELD TESTS: Conducting static plate load test on soil as per IS 1888 up to a depth of 5 m at specified locations up to an ultimate load of 100 T/Sq.m, for determining safe bearing capacity and modulus of sub grade reaction as per IS: 9214 at various locations and depths as per drawings, specifications and as directed by the Engineer-in-Charge (EIC), up to failure including preparation and submission of test reports in triplicate and one soft copy (editable). Note: The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, anchors, trusses, kentledge and jacks for tests etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.	5	Nos	15,534.00	77,670.00
22.00	FIELD TESTS: Conducting Static plate load test on foundation rock as per IS: 1888 and specifications at the founding level up to 400 T/Sq.m or failure, whichever is earlier, as per drawings, specifications and as directed by the Engineer-in-Charge (EIC) including preparation and submission of test reports in triplicate and one soft copy (editable). Note: The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, anchors, trusses, kentledge and jacks for tests etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.	20	Nos.	15,534.00	3,10,680.00
23.00	FIELD TESTS: Carrying out pressure meter tests (Expansion type) tests in rock, up to 200 bars, in holes at specified depths for estimation of modulus of elasticity of rock etc. as per IS 12955, specifications and drawings in selected boreholes and as directed by the Engineer-in-Charge and establishment of elastic modulus	400	Nos.	37,677.00	1,50,70,800.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	and deformation modulus and safe bearing capacity including preparation and submission of test reports in triplicate and one soft copy (editable). Note: 1. Each nos. for measurement consist of conducting test at a particular depth in a drilled borehole as specified in drawings. 2. The contractor shall ensure that the test should be only terminated when 200 bars of pressure or 20 mm dilation whichever occurs first and obtained pressure versus dilation curve has positive slope. (Repetition due to non-conformance of the same, would not be paid separately) 3. The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, accessories etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.				
24.00	FIELD TESTS: Conducting vertical cyclic plate load test on foundation rock as per IS:5249 at the founding level up to 400 T/Sq.m or failure, whichever is earlier, as per drawings, specifications and as directed by the Engineer-in-Charge (EIC), including preparation and submission of test reports in triplicate and one soft copy (editable). Note: The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, anchors, trusses, kentledge and jacks for tests etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.	5	Nos	3,84,465.00	19,22,325.00
25.00	FIELD TESTS: Digging pits, casting of RCC block and conducting concrete rock interface direct shear test as per IS:7746 inclusive of excavation of niche in rock, at the bottom of foundation level and other associated works complete including preparation and submission of test reports in triplicate and one soft copy (editable).	2	Nos	3,84,465.00	7,68,930.00

पंजीकृत पता: 16वीं मंजिल, सेंटर-1, वर्ल्ड ट्रेड सेंटर, कफ परेड, मुंबई - 400005, महाराष्ट्र

Regd. Address: 16th Floor, Centre-1, World Trade Centre, Cuff Parade, Mumbai - 400005, Maharashtra

Anushakti Vidyut Nigam Ltd. / अणुशक्ति विद्युत निगम लिमिटेड - CIN Number/ नंबर - U40300MH2011GOI212727

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	Note: The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, accessories etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.				
26.00	GEO-PHYSICAL FIELD INVESTIGATION: Conducting Cross Hole Test for evaluating the primary (P) waves & shear (S) waves velocities in two mutually perpendicular directions as per technical specifications, drawings & instructions of Engineer-in-Charge at the intervals of 1.5 m up to the depths mentioned below. This also includes preparation and submission of test reports in triplicate and soft copy (editable). Note: 1. The quoted rate shall include mobilisation, demobilisation, hiring & operating charges of equipment, spares, consumables, manpower, overheads, profit, taxes, duties, royalties & other statutory levies. 2. The cost shall also include compilation & analysis of the result & preparation of the detailed report taking in to account the available geotechnical investigations data. The final report shall be submitted in soft (editable) and 05 hard copies. 3. The required bore holes (Nx size for rock/PCC portion) up to required depth for conducting the test (one source hole & 4 observation/receiver holes for each test shall be paid in the relevant item. However the cost of flushing/ cleaning of the holes shall be taken in to account while quoting the rates. 4. The bore holes deviation survey as per specifications shall also be included in the quoted rates. 5. The analysis for the CHST Raw data shall be performed by the software/s approved/ recommended by the supplier of equipment/s used for acquiring the raw data. 6. The quoted rate shall include the contractor performing mock-up for CHST Test and submitting the detailed methodology of picking time arrival of P & S waves from waveforms.				-

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	7. The payment for the item will be released in the following manner: 70 percentage after conducting, acquiring and submitting the raw data's to EIC for CHST Tests and the rest only after completion of analysis (including submission of time arrival marked waveforms for all the test conducted), compilation and final submission of the report .				
26.01	Up to 30 m depth below the foundation level for various main plant buildings.	24	Nos	7,25,000.00	1,74,00,000.00
27.00	DRILLING FOR CONSOLIDATION GROUTING: Percussion drilling vertical holes of 76 mm Dia in overburden soil & disintegrated rock including supplying, fixing & removal of casing pipe of suitable size and removal & disposal of muck/ slush beyond main plant area etc.	150	RM	1,243.00	1,86,450.00
28.00	DRILLING FOR CONSOLIDATION GROUTING: Drilling vertical holes of 76 mm Dia in the foundation hard rock/concrete by "Percussion" means up to a maximum depth of 25 m including removal & disposal of muck/ slush beyond main plant area etc.	72,500	RM	1,243.00	9,01,17,500.00
29.00	CONSOLIDATION GROUTING BELOW FOUNDATIONS: (As per specifications & IS:6066) Pressure testing of hole with water to the specified pressure including providing, fixing and removing mechanical packers.	16,000	Nos.	544.00	87,04,000.00
30.00	CONSOLIDATION GROUTING BELOW FOUNDATIONS: (As per specifications & IS:6066) Injecting grout under pressure including providing, fixing and removing mechanical packers as per technical specifications. The rate shall also include plugging of holes with cement mortar 1:2 after completion of grouting.				-
30.01	Cement (with/without mineral fillers)	6,50,000	KG of cement	19.00	1,23,50,000.00
30.02	Cement and sand grout mix	1,00,000	KG of cement	19.00	19,00,000.00
31.00	DRILLING FOR CONSOLIDATION GROUTING: Percussive drilling through grouted holes of 76 mm Dia as per drawing/s, specification or as directed by Engineer-in-Charge	5,000	RM	2,330.00	1,16,50,000.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
32.00	PREPARATION & SUBMISSION OF REPORT: Preparation and submission of comprehensive draft (3 Copies) and final (6 copies) reports along with editable soft copies of all the confirmatory tests, field investigations, geophysical investigations, laboratory tests, geological mapping, consolidation grouting reports etc. in the scope of this tender as detailed in various items, specifications, drawings inclusive of bore logs, survey of discontinuities, compilation, interpretation, analysis of the data. The reports shall be proof checked by a renowned geotechnical expert from Government agencies like IITs/ IISc / NIRM / CWPRS / GSI to be approved by the Engineer-in-Charge. The Geotechnical expert proof checking the report shall present and defend the report along with recommendations during the meetings with AERB. The separate report for each confirmatory geotechnical/geophysical/laboratory test reports are to be prepared for individual buildings as per the drawing and to be submitted progressively on priority basis and a consolidated report needs to be submitted at the end covering all these buildings. These separate reports shall also be proof-checked by a renowned geotechnical expert from Government agencies like IITs/ IISc / NIRM / CWPRS / GSI to be approved by the Engineer-in-Charge. The following pro-rata basis is considered for the release of payment towards preparation of Comprehensive test and recommendation reports. First Nuclear Building: 20%, Second Nuclear Building: 20%, Control Building: 15%, SAB (4Nos.) & WMP: 20%, Other buildings put together: 10%, Consolidated Report: 5%, Rest 10% of the amount will be released only after approval of the reports from NPC-SRC/Other Committee as decided by EIC. However, the rate for preparation of the supplementary test reports for these additional tests, if any, is deemed to be included in the quoted rates and nothing will be paid extra.	1	Lumps um	59,20,000.00	59,20,000.00
33.00	PCC FOR MUD MAT/NON-STRUCTURAL FILL: MUD MAT / PCC: Supply, transport and	1,83,000	CU.M	6,221.00	1,13,84,43,000.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	placement of normal concrete of M15 grade at temperature not exceeding 38 deg. C for mass concrete/ lean concrete for foundation mud mat/non-structural fill for the main plant buildings and other structures as per the Technical specifications and as directed by the Engineer-in-Charge with coarse aggregate of maximum size not exceeding 20 mm including necessary formwork. Note: 1. The PCC can be either made with OPC cement without any mineral admixture or blending OPC cement with Fly ash as per Technical specifications. 2. The quoted rate shall include cost of formwork and formwork cost shall not be paid separately. 3. The rate shall include the expenses related to provisioning of green cutting for construction joint, addition of admixture/other material necessary for ensuring consistency and placement temperature for the PCC Concrete. 4. This rate shall also include the expenses related to the mock up of the item before taking up actual execution for the qualification as per technical specification. 5. The quoted rate shall include any cost related to preparation of detailed concrete casting scheme, design of concrete mix, etc subject to the approval of EIC.				
34.00	PASSIVE ROCK ANCHORS: Supply of TMT bars of Fe- 500 grade (up to Dia. of bars up to 45 mm) for Rock anchor as per technical specification and as directed by EIC for executing Item No. 35.	250	TON	74,563.00	1,86,40,750.00
35.00	FABRICATION AND INSTALLATION OF PASSIVE ROCK ANCHORS: Drilling 200 mm dia. vertical holes in hard rock / PCC /Re-drilling in grouted holes, supply & fabrication of anchor rod assembly (fabrication of anchor and wedge assembly plate with rods of TMT bars of minimum Fe-500 grade with HDPE sheathing), shot blasting, painting one coat of minimum 75 micron DFT of Zinc silicate primer followed by approved epoxy paint of minimum 200 micron DFT and installation of fabricated anchor assembly, grouting by using approved non-shrink compound and sand cement grout, sealing with polysulphide compound,	10,000	RM	1,181.00	1,18,10,000.00

Sl.No	Description of Work / Item(s)	Qty	Units	Finalized/Negotiated/Quoted Rate ₹ (Including GST)	Finalized/Negotiated/Quoted Amount ₹ (Including GST)
	including all materials, labour, DP test on welding, testing to working load/ultimate load etc. complete as per drawings, specifications and instructions of Engineer-in-Charge. Note: 1. The payment for TMT Bard for Rock anchor shall be paid separately on tonnage basis as in item no. 34 2. The quoted rate shall include the cost associated with supply and fabrication of every other parts of the Rock anchor assembly as per drawings, specifications, etc. 3. The quoted rate should include for the qualification of the anchor system. 4. The rate should also include additional welding/coupler requirement & qualification as may be required for longer free available length as per the specifications.				
	Total in Figures				3,84,94,29,695.00

Note:

1. The bid price/rates / total bid price quoted shall be **inclusive** of all statutory liabilities, taxes, cess, duties, levies, BOCW cess, etc., as applicable under the prevailing statutes or levy by the statutory authorities/State/Central Government and payable by the bidder under the contract, **including** GST. Bidder shall also comply with the provisions of Anti-Profiteering under the GST Act. The quote shall be **inclusive** of all costs towards compliance of EPF, ESIC, BOCW and other labour laws.
2. Price quoted should be **inclusive** of all applicable Taxes/charges **including** GST. The Contractor shall pay all other taxes, fees, royalty, commission etc., which may be levied on the contractor in executing the contract. In case Corporation is forced to pay any of such taxes, it shall be recovered from Contractor's bills or otherwise as deemed fit.

AHR item list

Name of the Work:
Excavation, confirmatory subsoil Investigations, consolidation grouting and carrying out concrete levelling course for Main plant structures and other important structures of MBRAPP Units 1&2 in Distt. Banswara, Rajasthan” (Package-I)
Tender No: NPCIL/HQ/CMM-WG/92/2024/PT/169
Work Order No.: MBRAPP/CMM/2025/11/CS/02 Dated- 10.11.2025
Name of Bidder: - M/s. Arcons Infrastructures and Construction Pvt Ltd

Sl. No	Description of Work / Item(s)	Final Rate (after negotiation) ₹ (Including GST)
1.00	EARTHWORK SITE CLEARANCE: Clearing the site by cutting, uprooting and removal of shrubs, bushes, weeds and trees up to girth of 300 mm (measured at a height of 1 M above ground) and disposal of the same in safe way to prevent fire hazard to far away place up to a lead of 2000 m from the site and as directed by the Engineer-in-Charge.	57.50
3.03	Slope Stability Analysis: Conducting slope stability and safety analysis by expert agency such as NIRM/GSI/IITs for the excavated trenches or proposed excavated trenches, stacked serviceable and unserviceable materials or proposed stacking of serviceable & unserviceable materials, surrounding soil, adjacent structures, pits, services and the work areas. The detailed study along with report should recommend the scientific arrangement of slope protection with detailed design calculations/drawing/scheme and technique to be adopted including provision of planning for geotextiles, shoring, cofferdam, or any other techniques desirable for safety and stability of the above applicable area throughout the contract. The same shall be approved by Engineer-in-Charge. Note: 1. The study shall be comprehensive and is to be presented in part or in full as applicable to each proposed or excavated or stacked area. 2. The report shall comprehend and supplement the excavation scheme prepared by the contractor under item 3 & 5	1,73,62,485.00
3.04	Slope protection: Providing and laying of protective covering/measures as suggested in the part-reports/report of the Slope Stability & Safety Analysis in item 3.03 including any geotextile/non-geotextile based protection at all heights/lifts for all collapsible and non-collapsible layers of the excavated trenches/pits/work area or for the stack of any serviceable/unserviceable materials as directed by Engineer -in-charge. Note: 1. The quoted rate shall include complete cost from supply of materials to the final implementation of protecting the slopes 2. It shall also include any cost that may incur due to rework if required for any reason such as climatic factor, poor workmanship, etc. 3. The unit of payment is effective area covered in square meters which	231.00

Sl. No	Description of Work / Item(s)	Final Rate (after negotiation) ₹ (Including GST)
	includes any over lapping or so and no separate payment for the same would be made	
4.00	Blast Charge Studies Conduct blast-charge studies through specialized agency like NIRM / CWPRS / GSI, as per technical specifications before commencing blasting for excavation in hard rock. The report should recommend the safe charge for limiting the peak particle velocity in permissible limits for various distances as per technical specifications. The specialised agency shall also suggest suitable method of muffling to avoid flying of rock/ rock pieces/ fragments during blasting. Note: Preparatory works involving tree cutting, pit excavation etc. shall be paid under relevant items.	1,49,17,281.00
9.00	DEWATERING: Deploying electrical/diesel operated dewatering equipment's including all machines/ equipment's, DG sets, pipe lines etc. functionally required for de-watering including installation, setting it to work, commissioning, decommissioning and removal from site after completion of work as per the technical specifications, approved scheme and as per instructions of the Engineer-in-Charge. Note: 1. This is one time payment for deployment of the above listed equipment and accessories, no separate payment is to be made for any re-deployment, shifting, modification, alterations, replacement, etc. as the quoted rate shall include it. 2. The payment is to be made only after successful deployment of all the equipment's and accessories as per the approved de-watering scheme or as directed by Engineer-in-Charge.	1,53,78,641.00
18.01	Conducting grain size analysis, particle size & percent fines distribution of soil and soil classification (IS 1498), (sieve analysis & hydrometer or pipette analysis), including grain size distribution curve as per drawings, specifications, IS 2720 (part-4) and as directed by the Engineer-in-Charge.	15,378.00
18.02	Conducting index properties of soil such as liquid limit, plastic limit and plasticity index, etc as per drawings, specification, IS 2720 (Part 5), IS 9259 and direction of the Engineer-in-Charge. Three tests of each soil sample will be considered as one set.	15,378.00
18.03	Conducting CBR test on soil samples as per drawings, specifications, IS 2720 (Part 16) and as directed by the Engineer-in-Charge.	15,378.00
19.01	Dry/Bulk density as per IS 13030 as specified in the drawing or as directed by the EIC	7,689.00
19.02	Specific gravity as per IS 1122 as specified in the drawing or as directed by the EIC	15,378.00
19.03	Uniaxial compression test as per IS 9143 to determine un-confined compressive strength, Young's Modulus E and Poisson's ratio as per IS 9221 (With/Without Saturation of samples as applicable) as specified in the drawing or as directed by the EIC	7,689.00
19.04	Tensile test by Point load method as per IS 8764 (With/Without Saturation of samples as applicable) as specified in the drawing or as directed by the EIC	15,378.00

Sl. No	Description of Work / Item(s)	Final Rate (after negotiation) ₹ (Including GST)
19.05	Conducting Triaxial compression strength with internal pressure up to 80 kg/cm ² as per IS 13047 (With/Without Saturation of samples as applicable) as specified in the drawing or as directed by the EIC Note: For measurement, one set means 3 samples with 3 different confining pressures.	15,378.00
19.06	Determination of water absorption as per IS 1124 and porosity as per IS 13030 as specified in the drawing or as directed by the EIC	15,378.00
20.07	Detailed petrographic examination of core including grinding thin sections for study under electronic microscope, taking photo (micro-graphs) of sections and assessment for strained quartz etc complete for including in the report and submission of report.	5,00,000.00
23.00	FIELD TESTS: Carrying out pressure meter tests (Expansion type) tests in rock, up to 200 bars, in holes at specified depths for estimation of modulus of elasticity of rock etc. as per IS 12955, specifications and drawings in selected boreholes and as directed by the Engineer-in-Charge and establishment of elastic modulus and deformation modulus and safe bearing capacity including preparation and submission of test reports in triplicate and one soft copy (editable). Note: 1. Each nos. for measurement consist of conducting test at a particular depth in a drilled borehole as specified in drawings. 2. The contractor shall ensure that the test should be only terminated when 200 bars of pressure or 20 mm dilation whichever occurs first and obtained pressure versus dilation curve has positive slope. (Repetition due to non-conformance of the same, would not be paid separately) 3. The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, accessories etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.	37,677.00
24.00	FIELD TESTS: Conducting vertical cyclic plate load test on foundation rock as per IS:5249 at the founding level up to 400 T/Sq.m or failure, whichever is earlier, as per drawings, specifications and as directed by the Engineer-in-Charge (EIC), including preparation and submission of test reports in triplicate and one soft copy (editable). Note: The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, anchors, trusses, kentledge and jacks for tests etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.	3,84,465.00
25.00	FIELD TESTS: Digging pits, casting of RCC block and conducting concrete rock interface direct shear test as per IS:7746 inclusive of excavation of niche in rock, at the bottom of foundation level and other associated works complete including preparation and submission of test reports in triplicate and one soft copy (editable).	3,84,465.00

Sl. No	Description of Work / Item(s)	Final Rate (after negotiation) ₹ (Including GST)
	Note: The quoted rate shall be inclusive of preparation of the test surface, making access, mobilization and demobilization of all equipment, accessories etc, all materials, suitable & adequate skilled, semiskilled & unskilled personnel, preparation and submission of test reports etc. all complete as specified and required for executing the works under the scope of this item.	
26.01	Up to 30 m depth below the foundation level for various main plant buildings.	7,25,000.00
32.00	PREPARATION & SUBMISSION OF REPORT: Preparation and submission of comprehensive draft (3 Copies) and final (6 copies) reports along with editable soft copies of all the confirmatory tests, field investigations, geophysical investigations, laboratory tests, geological mapping, consolidation grouting reports etc. in the scope of this tender as detailed in various items, specifications, drawings inclusive of bore logs, survey of discontinuities, compilation, interpretation, analysis of the data. The reports shall be proof checked by a renowned geotechnical expert from Government agencies like IITs/ IISc / NIRM / CWPRS / GSI to be approved by the Engineer-in-Charge. The Geotechnical expert proof checking the report shall present and defend the report along with recommendations during the meetings with AERB. The separate report for each confirmatory geotechnical/geophysical/laboratory test reports are to be prepared for individual buildings as per the drawing and to be submitted progressively on priority basis and a consolidated report needs to be submitted at the end covering all these buildings. These separate reports shall also be proof-checked by a renowned geotechnical expert from Government agencies like IITs/ IISc / NIRM / CWPRS / GSI to be approved by the Engineer-in-Charge. The following pro-rata basis is considered for the release of payment towards preparation of Comprehensive test and recommendation reports. First Nuclear Building: 20%, Second Nuclear Building: 20%, Control Building: 15%, SAB (4Nos.) & WMP: 20%, Other buildings put together: 10%, Consolidated Report: 5%, Rest 10% of the amount will be released only after approval of the reports from NPC-SRC/Other Committee as decided by EIC. However, the rate for preparation of the supplementary test reports for these additional tests, if any, is deemed to be included in the quoted rates and nothing will be paid extra.	59,20,000.00

M/s Arcons Infrastructures and Constructions Pvt. Ltd. has agreed to provide a suitable rebate on items that are under AHR, even after negotiations (see Annexure B above), in the event of an increase in the quantities of such items beyond BOQ quantities to maintain his L1 position during project execution.