

(भारत सरकार का उदयम)

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

भारत सरकार का उद्यम A Govt. of India Enterprise

मिनीरत्न : श्रेणी-। Miniratna : Category-। एनटीपीसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी A wholly owned subsidiary of NTPC Website: www.neepco.co.in. E-mail: contract@neepco.co.in

OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)
Brookland Compound :: Lower New Colony, Shillong-793 003
Corporate Identity Number (CIN): U40101ML1976GOI001658

PC

ISO:9001 14001 &

45001

No.: NEEPCO/QP/ED/C&P/F/C/Pkg-I/Tato-I/631/Vol-II/2025-26/ **345**

Dated 02-05-2025

To.

M/s IRCON International Ltd., C-4, District Centre Saket New Delhi-110017

Email: rakesh.sharma@ircon.org gmbd@ircon.org

Sub: Letter of Acceptance (LOA) for the work of Package-I: Construction of Civil Works on Item Rate for Tato-I Hydro Electric Project (186 MW), Shi Yomi District, Arunachal Pradesh, comprising of Headworks & allied works, Head Race Channel, Head race Pipe, Intake, Headrace tunnel, Surge shaft, Pressure shaft, Valve house, Power house & allied works and Infrastructure works

Ref: i) NIB No.: 457 dated 25.10.2024.

- ii) Corrigendum No.1 dated 05.11.2024
- iii) Corrigendum No. 2 dated 11.12.2024
- iv) Pre-Bid Clarifications No. 1 Dtd. 24.12.2024
- v) Corrigendum No. 3 dated 13.01.2025
- vi) Corrigendum No.4 dated 22.01.2025
- vii) Pre-Bid Clarifications No. 2 Dtd. 22.01.2025
- viii) Corrigendum No.5 dated 23.01.2025
- ix) Pre-Bid Clarifications No. 3 Dtd. 23.01.2025
- x) Corrigendum No.6 dated 28.01.2025
- xi) Corrigendum No.7 dated 01.02.2025
- xii) Pre-Bid Clarifications No. 4 Dtd. 05.02.2025
- xiii) Corrigendum No.8 dated 06.02.2025
- xiv) Corrigendum No.9 dated 10.02.2025
- xv) Corrigendum No.10 dated 17.02.2025
- xvi) Clarifications No. 5 dated 21.02.2025
- xvii) Minutes of Pre-Award meetings dated 12.03.25 & 13.03.2025
- xviii) Your letter dated 13-03-2025
 - xix) Minutes of Pre-Award meeting dated 12.04.2025

Dear Sir(s),

With reference to above, the North Eastern Electric Power Corporation Limited (hereinafter referred to as the "Corporation") is pleased to place this Letter of Acceptance (LOA) for the above-mentioned work, with M/s IRCON International Ltd. (hereinafter referred to as the "Contractor") as per scope, terms & conditions of the NIB No. 457 dated 25.10.2025, Bid document and subsequent Corrigenda thereto issued from time to time.

The salient Terms and Conditions are mentioned below for reference:

SCOPE OF WORK:

The overall scope of work covered under this Contract comprises of "Package-I: Construction of Civil Works on Item Rate for Tato-I Hydro Electric Project (186 MW), Shi

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NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

भारत सरकार का उद्यम 🛮 A Govt. of India Enterprise मिनीरत : श्रेणी-। Miniratna : Category-I

एनटीपीसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी A wholly owned subsidiary of NTPC Website: www.neepco.co.in, E-mail: contract@neepco.co.in OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT) Brookland Compound :: Lower New Colony, Shillong-793 003

Brookland Compound :: Lower New Colony, Shillong-793 00: Corporate Identity Number (CIN): U40101ML1976GOI001658



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Yomi District, Arunachal Pradesh, comprising of Headworks & allied works, Head Race Channel, Head race Pipe, Intake, Headrace tunnel, Surge shaft, Pressure shaft, Valve house, Power house & allied works and Infrastructure works", complete in all respect, as indicated in Clause 2, Part-1 (Detail NIB) of Bid document.

The quantities of different items of works, as indicated in the Bill of Quantities (BOQ) enclosed at **Annexure-I** are tentative and may undergo changes.

The cost of materials and components not specifically stated in any items of BOQ but are necessary for satisfactory completion of the said item of works as per Technical Specifications in all respect, shall be deemed to have been included in the scope of work, for which no extra claim shall be entertained by the Corporation.

2. TIME OF COMPLETION:

The time of completion for the entire scope of work is 45 (Forty-Five) months from the date of issue of Letter of Acceptance (LOA).

In terms of Clause 34 of Part-3, ITB and Clause 4.9 of Part-4, GCC(FIDIC1999),PCC of Bid Document, you are requested to submit the following to the Head of Project, Tato-I, H.E. Project, NEEPCO, Tato, Shi Yomi district, Arunachal Pradesh-791003, E-mail: hop.tatohep@gmail.com, Phone: 9436164149 within 15 (fifteen) days from the date of issue of LOA, for his approval. The same shall form an integral part of the Contract Agreement.

- Work Programme indicating the sequence of various activities and the order of procedure in which he proposes to construct each structure/component of the Works;
- (ii) Mobilisation schedule of manpower;
- (iii) Mobilisation schedule of Construction Equipment;
- (iv) Mobilisation schedule of main materials indicating the source of the materials.
- (v) Quality Assurance Programme (QAP)

The Contractor shall strictly adhere to such Approved Work Programme, Mobilisation schedules and Quality Assurance Programme (QAP).

3. CONTRACT PRICE:

The Contract Price is Rs. 458,14,42,765.23 (Rupees four hundred fifty eight crore, fourteen lakh, forty two thousand seven hundred sixty five and paise twenty three) only including all applicable taxes & duties etc. as indicated in the BOQ enclosed at Annexure-I.

The rates quoted against BOQ item Nos. 3.08, 3.14, 3.15, 3.17, 3.19, 5.03, 5.04, 5.06, 5.08, 5.30, 5.34, 5.37, 10.06, 10.17, 11.07, 12.07, 13.08, 14.06, 14.16, 14.30, 14.31, 14.32, 14.49, 14.50, 14.52, 14.53, 14.54, 14.59, 14.61, 14.62, 14.64, 14.65, 14.68, 14.72, 14.73, 14.76, 14.77, 14.80, 14.81, 14.82, 14.98, 14.99, 15.05, 15.07, 15.08, 16.17, 16.19, 16.24, 16.26,

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NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

भारत सरकार का उद्यम A Govt. of India Enterprise मिनीरत : श्रेणी-I Miniratna : Category-I

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16.27, 16.28, 16.30, 16.34, 16.36, 16.37, 16.43, 16.44, 16.45, 16.46, 16.47, 16.48, 16.50, 16.51, 16.52, 16.54, 16.55, 16.56, 16.57, 16.62, 16.63, 16.64, 16.66, 16.67, 16.69, 16.74, 16.75, 16.77, 16.79, 16.94, 16.95, 16.96, 17.22, 17.52, 17.66, 18.09, 18.12, 18.21, 18.47, 19.10 & 19.11 are identified as Abnormally High Rates (AHR) and shall not be taken as reference to evaluate rates of extra, substituted items etc. in terms of clause 23.1(iii) of Part-3 (ITB) of Bid Document.

4. TAXES DUTIES, LEVIES ETC.:

The rates as indicated against various item of works in the BOQ are inclusive of all applicable taxes, duties, levies, cess etc. existing 28 (twenty-eight) days prior to latest date of submission of bids (i.e.24-02-2025). In this regard, provisions of Clause 13.7 and 14.1of Part-4, GCC(FIDIC1999), PCC of Bid Document shall prevail.

5. TERMS OF PAYMENT:

The payment to the Contractor for the works executed under the Contract shall be governed by the provision of sub-clauses under clause 14: Contract price and Payment of Part-4, GCC(FIDIC1999),PCC of Bid Document.

Paying Authority: All payments shall be made by the Head of Finance, F&A, Tato-I H.E. Project, NEEPCO Ltd., Tato, Shi Yomi district, Arunachal Pradesh-791003, who shall release the payment based on certification by the Engineer-in-Charge.

6. PRICE ADJUSTMENT / VARIATION:

The Price adjustment and Variation against the Contract shall be admissible as per the provision of sub-clauses under clause 13: Variations and Adjustments of Part-4, GCC(FIDIC1999), PCC of Bid Document.

7. ADVANCES AND RECOVERIES THEREOF:

Advances and Recoveries admissible in this work, shall be governed by the provision of sub-clauses under clause 14: Contract price and Payment of Part-4, GCC(FIDIC1999), PCC of Bid Document.

8. COMMENCEMENT OF WORK:

The work shall be started immediately from the date of issue of Letter of Acceptance (LOA) as per the provisions of Clause 8.1 of Part-4, GCC(FIDIC1999),PCC of Bid Document.

9. COMPENSATION FOR DELAY:

The compensation to be paid by the Contractor for delay in completing the work shall be governed by the provisions of sub-clauses under clause 8: Commencement, Delays and Suspension of Part-4, GCC(FIDIC1999), PCC of Bid Document.

10. POWER SUPPLY:

The supply of power for the Contract shall be governed by the provisions of Clause 4.19 of Part-4, GCC(FIDIC1999), PCC of Bid Document.

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Website: www.neepco.co.in, E-mail: contract@neepco.co.in Brookland Compound :: Lower New Colony, Shillong-793 003 ISO:9001, 14001 & 45001

OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)

Corporate Identity Number (CIN): U40101ML1976GOI001658

11. LABOUR:

The Contractor shall employ labour for execution of the work as per the provisions of subclauses under clause 6: Staff and Labour of Part-4, GCC(FIDIC1999), PCC of Bid Document.

12. CONSTRUCTION PLANT AND EQUIPMENT:

The Contractor shall deploy all required plant, equipment and machinery in good and running condition for execution of the work as per provisions of Clause 4.17 of Part-4, GCC(FIDIC1999), PCC of Bid Document.

CONSTRUCTION MATERIALS:

The Contractor shall arrange and supply all materials required for the works, at his own expense, as per provisions of Clause 31, Part-3 of ITB and Clause 4.26 of Part-4. GCC(FIDIC1999), PCC of Bid Document.

14. TESTING, INSPECTION AND QUALITY ASSURANCE:

The Contractor shall submit a suitable Quality Assurance Programme (QAP) to the Engineer-In-Charge for his approval and approved QAP shall form an integral part of the Contract Agreement. The Contractor shall execute the work following the approved QAP as per the provisions of Clause 4.9 of Part-4, GCC(FIDIC1999), PCC of Bid Document.

15. SAFETY AND SECURITY:

The Contractor shall ensure the Safety and Security Measures as per the provisions of Clause 4.22 and Appendix-II of Part-4, GCC(FIDIC1999), PCC of Bid Document.

16. ENVIRONMENTAL PROTECTION MEASURES:

The Contractor shall ensure the Environmental Protection Measures as per the provisions of Clause 4.18 of Part-4, GCC(FIDIC1999), PCC of Bid Document.

17. CONSTRUCTION DRAWING

Approved Construction drawings shall be issued from time to time to the Contractor in a phased manner as per requirements for this Contract in terms of clause 1.1.1.6 of Part-4, GCC(FIDIC1999), PCC of Bid Document.

18. SECURITY DEPOSIT:

(i) The Contractor shall deposit Performance Security equivalent to 5% (five percent) of the Contract Sum i.e. for an amount of Rs.22,90,72,000.00 (Rupees twenty two crores ninety lakhs seventy two thousand) only and an additional Performance Security by the Sub-Contractor equivalent to 2.5 % (two point five) percent of the subcontracted amount to this Office in the form of Bank Guarantee/ account payee Demand Draft/ Insurance Surety Bond / Fixed Deposit Receipt / online payment mode, within 21(twenty one) days from the date of issue of the LOA in terms of

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NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

भारत सरकार का उद्यम A Govt. of India Enterprise मिनीरत्न : श्रेणी-I Miniratna : Category-I

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Clause 27 of Part-3, ITB and clause 4.2 of Part-4, GCC(FIDIC1999),PCC of Bid Document.

(ii) The Contractor shall deposit Additional Performance Security for an amount of Rs.5,24,000,00.00 Crore (Rupees five crores twenty-four lakhs) only, in terms of minutes of meetings dated 12.04.2025. The Bank Guarantee format for the additional Performance Security is attached herewith as Annexure-II.

19. SIGNING OF CONTRACT AGREEMENT:

- (i) The Contract Agreement shall be signed on Non-Judicial Stamp paper of Rs. 100.00 (Rupees one hundred), between the Corporation and the Contractor, within 21 (twenty one) days from the date of issue of Letter of Acceptance, in terms of Clause 26(iii), Part-3, ITB of Bid document.
- (ii) Until a formal Contract Agreement is executed, LOA read in conjunction with the bid document and subsequent Corrigenda thereto shall constitute a binding Contract between the Contractor and the Corporation in terms of Clause 26(ii), Part-3, ITB of Bid document.

You are requested to acknowledge the receipt of this Letter of Acceptance and convey your unconditional acceptance of the same within 5(five) days from the date of issue of this LOA. Further, the documents mentioned at Serial 2 (i, ii, iii, iv and v), 14 and the Performance Security shall be submitted within the stipulated date to enable signing of the contract within 21 days of issue of this LOA.

Thanking You.

Enclo.: As above.

Yours sincerely,

Executive Director
Contracts & Procurement

Bill of Quantities

Name of Work: Package-I: Construction of Civil Works on Item Rate for Tato-I Hydro Electric Project, Arunachal Pradesh, comprising of Headworks & allied works, Head Race Channel, Head race Pipe, Intake, Headrace tunnel, Surge shaft, Pressure shaft, Valve house, Power house & allied works and Infrastructure works

Name of the Contractor: M/s IRCON International Ltd, C-4, District Centre Saket, New Delhi-110017

LOA No.: NEEPCO/QP/ED/C&P/F/C/Pkg-I/Tato-I/631/Vol-II/2025-26/ 345 Dtd. 01.05.2025

SI. No.	NEEPCO/QP/ED/C&P/F/C/Pkg-I/Tato-I/631/Vol-II/2025-26/ 345 Dtd. 01.05.	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
1.00	CONTROL OF WATER, CONSTRUCTION DRAINAGE AND DEWATERING				
1.01	Control of water, dewatering of surface/underground construction sites including all construction works, labor, plants and materials necessary to keep the construction sites free of water during the contract period. Complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge.			63.26	1,26,52,000.00
1.02	Dewatering of surface construction sites	200000.000	kWHr	63.26	
1.03	Dewatering of underground construction sites	250000.000	kWHr	03.20	1,00,10,000
2.00	SURFACE EXCAVATION AND BACKFILL				
2.01	Surface excavation including loading, transport, all lift and lead up to 3.0 km from the excavation area/working site, unloading at disposal sites or stockpiles and maintenance of the disposal sites or stockpiles. Construction of required haul roads and its maintenance. Complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge.				
2.02	Weir, Channel intake, approach channel, head race channel, escape channel, Head Race pipe, Powe Intake & River Diversion Works and permanent roads			31.78	8 3,17,800.00
2.03	Clearing of excavation areas, disposal areas and stockpiles	10000.000	m ²	CONTRACTOR	
2.04	Excavation in soil including stripping of top soil	74454.000	m ³	174.25	
2.05	Excavation in soft and disintegrated rock	98048.000	m ³	266.5	2,01,29,792.0
2.06	Excavation in hard rock				





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
	Drilling and blasting	101433.000	m ³	433.06	
	Line-drilling	500.000	rm	820.00	4,10,000.00
Cos	st of Haulage excluding loading & unloading of excavated materials tcha Track beyond initial lead of 3.00km	30000.000	Cum/km	35.88	10,76,400.00
	CS including HRT,ADITS,HPT, Surge Shaft and Valve House.				
	earing of excavation areas, disposal areas and stockpiles	10000.000	m ²	31.78	
The state of the s	cavation in soil including stripping of top soil	26416.000	m ³	174.25	
0.0000000000000000000000000000000000000	cavation in soft and disintegrated rock	36810.000	m ³	266.50	98,09,865.00
	cavation in hard rock				
	Drilling and blasting	50960.000	m ³	433.06	
	Line-drilling	500.000	rm	820.00	4,10,000.00
0.47 Ha	aulage excluding loading & unloading of excavated materials atcha Track beyond initial lead of 3.00km	10000.000	Cum/km	35.88	3,58,800.00
	ower House & Tail Race System				4 70 700 00
2.19 Cle	earing of excavation areas, disposal areas and stockpiles	15000.000	m ²	31.78	
2.20 Ex	cavation in soil including stripping of top soil	24176.000	m ³	174.2	
2.21 Ex	xcavation in soft and disintegrated rock	108429.000	m ³	266.5	2,88,96,328.50
	xcavation in hard rock				
A Section of the second	Drilling and blasting	245580.000	m ³	433.0	
2.24 b)	Line-drilling	500.000	rm	820.0	0 4,10,000.00
Co Co	ost of Haulage excluding loading & unloading of excavated materials Katcha rack beyond initial lead of 3.00km	15000.000	Cum/km	35.8	5,38,200.00
	ackfilling				0.74.00.075.04
2.27 Ra	andom backfill	71378.000	m ³	384.3	
2.28 Se	elected backfill	10000.000	m^3	422.8	
2.29 Sa	and-gravel backfill	14451.000	m ³	1,343.6	1,94,17,519.68
Co	construction of embankment using available excavated muck including all andling, lead, lift and compaction complete for river diversion and other area.	36000.000	m ³	384.3	1,38,37,680.00
3.00 U	INDERGROUND EXCAVATION				





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
		4	5	6	7
1	2				
3.01	Underground excavation of Head Race Tunnel, Power Tunnel and Construction Adit including excavation by drill and blast, mechanical, manual or conventional methods; including all survey and setting-out, all lifts, transportation and unloading at disposal sites upto 3.0 km from the nearest portal and including maintenance of the disposal sites or stockpiles. Construction of required haul roads and its maintenance. Complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge.				
3.02	Head Race Tunnel & Construction Adits	38240.000	m ³	2,050.00	7,83,92,000.00
3.04	a) Excavation in class 2	103950.000	m ³	2,050.00	21,30,97,500.00
3.05	b) Excavation in class 3	26990.000	m ³	2,255.00	6,08,62,450.00
3.06	c) Excavation in class 4A & 4B	18663.000	m ³	3,075.00	5,73,88,725.00
3.07	d) Excavation in class 5	7961.000	m ³	4,100.0	3,26,40,100.00
3.08	e) Excavation in class 6	7961.000	m		
3.09	Pressure Tunnel excluding the Vertical Shaft Portion	2616.000	m ³	2562.5	0 67,03,500.00
3.11	a) Excavation in class 2	7049.000	m ³	2562.5	
3.12	b) Excavation in class 3	1434.000	m ³	2767.5	39,68,595.00
3.13	c) Excavation in class 4A &4B		m ³	3587.5	
3.14	d) Excavation in class 5	525.000	m m ³	4612.5	
3.15	e) Excavation in class 6	416.000	m		
3.16	Vertical Shaft Portion of the Pressure Tunnel	4957.000	m ³	18450.0	9,14,56,650.00
3.17	a) Excavation in all Classes	4957.000	m)
3.18	Surge Shaft	21694.000	m ³	11275.0	24,45,99,850.00
3.19	a) Excavation in all Classes	21034.000	111		
3.20	Loading, transport including all lift and lead and unloading of accepted geological overbreak upto 3.0 km from the nearest portal	0404 000	m ³	461.	25 28,14,086.29
3.21	a) Head Race Tunnel, construction Adits and pressure tunnel	6101.000	m ³	461.	STATE OF THE PROPERTY OF THE P
3.22	b) Vertical Shaft Portion of the Pressure tunnel and surge shaft	4022.000	m ⁻		ma consider
3.23	Haulage excluding loading & unloading of excavated materials Katcha Track beyond initial lead of 3.00km	29371.000	Cum/km	35.	

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
	2	4	5	6	7
4.00	ROCK SUPPORT				
4.01	Rock support for underground excavation of Head Race Tunnel, Surge shaft, vertical shaft, Adits & Pressure Tunnel including all plants, materials and labour. Complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge.				
4.02	Shotcrete Grade M25				4.45.00.000.00
4.03	a) Without Steel Fibre Reinforcement	2892.000	m ³	14350.00	4,15,00,200.00
4.04	b) With Steel Fibre Reinforcement	4872.400	m ³	18450.00	
4.05	Precast R.C.C. laggings	954.000	m^3	12300.00	1,17,34,200.00
4.06	Resin/cement based capsule grouted rock bolts				
4.07	a) 25mm dia	108821.000	rm	666.25	
4.08	a) 32mm dia	10000.000	rm	922.50	
4.09	Steel rib	782.000	MT	102500.00	
4.10	Forepoling, grouted anchor bars	70.000	MT	128125.00	89,68,750.00
4.11	Pipe Rooing:	27.000	MT	307500.00	
4.12	Lattice girder, steel canopy	130.000	MT	97375.00	
4.13	Welded Wire Mesh	40782.000	m^2	358.75	1,46,30,542.50
5.00	SLOPE PROTECTION				
5.01	Slope protection in surface excavation including all plants, materials and labour. Complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge				
5.02	Rip-Rap			0.150.5	40.07.040.50
5.03	Bedding	505.000	m ³	2152.5	Manage Balling St. Manage Ballin
5.04	Rip-Rap	2018.000	m ³	2152.5	43,43,745.00
5.05	Rock Paving				
5.06	Dry rock paving	2000.000	m ³	3587.5	
5.07	Rock paving in mortar	2000.000	m ³	3946.2	
5.08	Boulder Protection /launching apron	5575.000	m ³	2075.6	3 1,15,71,637.25
5.09	Gabions Gabons	7853.000	m ³	4141.0	0 3,25,19,273.0





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
		4	5	6	7
1	2	5000.000	m ³	4663.75	2,33,18,750.00
5.10	Masonary Walls for slope protection, water control barrier, etc.				
5.11	cement/ cement sand grouted rock support	27244.000	rm	1178.75	3,21,13,865.00
5.12	32mm dia rock bolt	17244.000	rm	922.50	1,59,07,590.00
5.13	25mmdia rock bolt	7714.000	rm	2972.50	2,29,29,865.00
5.14	Self drilling anchor 32mm dia.	7714.000			
5.15	Shotcrete Grade M25	5917.000	m ³	14350.00	8,49,08,950.00
5.16	Without Steel Fibre Reinforcement	5917.000	m		
5.17	Steel wire mesh		2	358.75	1,41,30,086.25
5.18	Welded Wire Mesh	39387.000	m ²	358.75	
5.19	Chain link wire mesh	23300.000	m ²	330.73	00,00,010100
5.20	Grouted anchor bar			666.25	89,52,401.25
5.21	25mm dia	13437.000	rm	922.50	
5.22	32mm dia	21370.000	rm	922.30	1,51,10,522
5.23	Pre stressed cable Anchor				
5.24	Supply and installation of pre stressed Tendons of High tensile strands of nominal sizes upto 15.2mm dia. in Rock Anchors with Anchor Guide, Spacer, Centraliser, Sheathing, grout pipe, Anchor Block, Bearing Plate, Grip wedge and Anchor cap complete with corrosion protection including stressing and all types of tests as per the Technical specification and direction of the Engineer-in-Charge.	6.000	MT	205000.0	12,30,000.00
5.25	Drilling			2716.2	5 28,52,062.50
5.26	a) 99mm dia hole	1050.000	rm	1332.5	.0
5.27	b) Re-drilling 99mm dia hole	350.000	rm	13.5	
5.28	Grouting	52800.000	Kg.	10.0	, , ,
5.29	PVC pipes conforming to IS 4985:2000 in Free length part of Cable Anchors		4	435.6	1,90,805.9
5.30	90 mm outer dia 6 kg/sqcm & class 3	438.000	rm	400.0	,,,
5.31	Medium duty GI pipes conforming to IS 1239-2005 in Free length part of Cable Anchors			1896.3	25 6,63,687.5
5.32	a) 80mm Nominal Bore	350.000	rm		
5.32	b) 100mm Nominal Bore	88.000	rm	2203. ¹ 8968.	
5.34	Extra for core recovery	50.000	rm	8908.	1,10,101.0





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
5.35	Providing and Laying of Topsoil & seeding including all transportation and handling	2500.000	m ³	527.88	13,19,700.00
5.36	Landscaping including plantation. Maintenance etc complete.	2000.000	m ²	153.75	
5.37	Laying of Geotextile for erosion protection	2000.000	m ²	384.38	7,68,760.00
6.00	CONCRETE				
6.01	Complete in all respect with all plants, materials, labour, all lead and lift etc. as per technical specification, drawings and as directed by Engineer-in-Charge.				
6.02	Plain/reinforced cement concrete in Weir, channel intake and Approach channel, River diversion, HRC & escape channel excluding formwork				
6.03	M10A150	9550.000	m ³	4920.00	
6.04	M10A40	7407.000	m ³	4920.00	
6.05	M15A40	9982.000	m ³	5330.00	
6.06	M20A40	2975.000	m ³	6150.00	
6.07	M20A20	3250.000	m ³	6150.00	
6.08	M25A20	47459.000	m ³	6508.7	
6.09	Concrete block for launching apron (M 15A40)	371.000	m ³	8200.0	30,42,200.00
6.10	High Performance Concrete				
6.11	M40A20	418.000	m ³	10250.0	0 42,84,500.00
6.12	Second stage concrete in blockout including formwork				40.04.070.00
6.13	M30A20	154.000	m ³	8405.0	
6.14	Reinforced cement concrete M25 in HRP including inner formwork	23012.000	m ³	7687.5	0 17,69,04,750.00
6.15	Plain/ RCC concrete in Underground structure including formwork				
6.16	Head Race Tunnel, Pressure Tunnel excluding vertical shaft portion, Construction Adits				
6.17	a) Backfilling upto pay line/ behind steel liner with M20A20 concrete	2800.000	m ³	8200.0	
6.18	b) Backfilling upto Pay Line with M25A20 Concrete	2165.000	m ³	8712.5	
6.19	c) Concrete lining with M25A20 Concrete	31347.000	m ³	7995.0	25,06,19,265.00
6.20	Surge shaft		9	0000	10,33,200.00
6.21	a) Backfill up to payline with M20 Concrete	126.000	m ³	8200.0	10,33,200.00





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		4	5	6	7
1	2	5148.000	m ³	8200.00	4,22,13,600.00
ALAMBERT III	b) Concrete lining grade M25	0,1,0,00			
	Vertical shaft portion of HPT	939.000	m ³	8200.00	N .
	a) Backfilling upto Pay Line with M20 Concrete	939.000	m ³	8200.00	76,99,800.00
6.25	b) Backfill behind steel liner with M20 Concrete	000.000			
	Backfilling accepted Geological overbreak including required formwork Backfilling with M15 concrete for Head Race Tunnel, Adits & Pressure Tunnel	6101.000	m ³	7175.00	4,37,74,675.00
0.00	Backfilling with M15 concrete for Surge shaft & Vertical Shaft portion of	1469.000	m ³	7175.00	
	Pressure Tunnel Plugging of Adits with M20 concrete	1900.000	m^3	8405.00	1,59,69,500.00
	Plain/ RCC Concrete in Overground structure in WCS - Intake, Adit portals, Anchor block, Surge shaft, vertical shaft etc, excluding formwork				10.05.100.00
	M20A20	196.000	m^3	6150.00	
	M25A40	5350.000	m ³	6662.5	
0.00		5350.000	m^3	6662.5	
CONTRACTOR OF THE PARTY OF THE	M25A20	363.000	m ³	4920.0	0 17,85,960.00
6.34	M10A40 Plain/ RCC Concrete in Power House, Tail race and valve house excluding				
6.36	formwork	24.000	m ³	4920.0	1,18,080.00
6.37	M10A150		m ³	4920.0	6,51,06,360.00
6.38	M10A40	13233.000	m m ³	5330.0	
6.39	M-15A40	471.000		6662.5	VALUE OF THE PROPERTY OF THE P
6.40	M25A20	17500.000	m ³	6150.0	
6.41	M20A40	9000.000	m ³	6150.0	
6.42	M20A20	8000.000	m ³	4920.0	
6.43	Concrete Block M10	471.000	m ³	4920.0	20,17,020.0
6.44	Second stage Concrete in blockout including formwork		3	8405.0	1,00,01,950.0
6.45	M-30A20	1190.000	m ³	0400.	1,1-1,-1,1-1,1-1
7.00	FORMWORK				1





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1	2	4	5	6	7
7.01	Formwork for cast-in-situ concrete works, complete in all respect with all plants, materials, labour, all lead and lift etc. complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge. For all formed surfaces where the formwork is not included in the payment of concrete.				
7.02	F1 Surface finish	10400.000	m ²	820.00	85,28,000.00
7.03	F2 Surface finish	21000.000	m ²	820.00	1,72,20,000.00
7.04	F3 Surface finish	15000.000	m ²	820.00	1,23,00,000.00
7.05	F1C Surface finish	2700.000	m ²	820.00	22,14,000.00
7.06	F2C Surface finish	3000.000	m ²	820.00	24,60,000.00
7.07	F3C Surface finish	3000.000	m ²	820.00	24,60,000.00
8.00	STEEL FOR REINFORCEMENT				
8.01	High yield strength deformed reinforcement bar/ wire of Fe500 grade complete in all respect with all plants, materials, labour, all lead and lift etc. as per technical specification, drawings and as directed by Engineer-in-Charge.				
8.02	Weir & channel intake, approach channel, escape channel, Heard race power channel, power Intake, River diversion and permanent roads	4978.000	MT	91225.00	45,41,18,050.00
8.03	HRT, Construction Adits, Surge shaft, vertical shaft & pressure tunnel	995.000	· MT	91225.00	
8.04	Power House & Tail Race and valve house	1942.000	MT	91225.00	17,71,58,950.00
9.00	JOINTS AND SEALANTS	T - CHIMNES	MATERIAL STATE		
9.01	Complete in all respect with all plants, materials, labour, all lead and lift etc.as per technical specification, drawings and as directed by Engineer-in-Charge.				
9.02	PVC Waterstops 300 mm	206.000	rm	589.3	
9.03	PVC Waterstops 230 mm	764.000	rm	563.7	
9.04	Pre-moulded joint filler in expansion joints - 25mm thick	1400.000	m ²	471.50	
9.05	Polysulphide joint sealant including surface preparation	310.000	rm	384.3	1,19,157.80
10.00	DRILLING		productions.		
10.01	Complete in all respect with all plants, materials and labour as per technical specification, drawings and as directed by Engineer-in-Charge.				



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		4	5	6	7
1	2				
10.02	Percussion drilling				
10.03	Weir & Intake/Power House	5087.000	rm	563.75	
10.04	a) Drill holes up to ø 48 mm, length < 10 m	5177.000	rm	615.00	
10.05	b) Drill holes up to ø 48 mm, length 10 - 30 m	20643.000	rm	1050.63	2,16,88,155.09
10.06	c) Drill holes up to ø 76 mm, length upto 30m	20643.000	110		
10.07	Head Race Tunnel / Pressure Tunnel/Surge Shaft/Vertical shaft/Construction Adit			563.7	1,07,02,230.00
10.08	a) Drill holes up to ø 48 mm, length < 10 m	18984.000	rm	615.0	
10.09	b) Drill holes up to Ø 48 mm, length 10 - 30 m	5953.000	rm	615.00	00,01,000.00
10.10	Rotary drilling				
10.11	Weir & Intake			1050.6	3 1,57,594.50
10.12	a) Drill holes up to ø 76/80 mm, length < 30 m	150.000	rm	2665.0	
10.12	b) Drill holes up to ø 99 mm, length < 30 m	100.000	rm	2005.0	2,00,000.00
	Head Race Tunnel / Pressure Tunnel/Surge Shaft/Construction				
10.14	Adit/Power House		100	1050.6	1,05,063.00
10.15	a) Drill holes up to ø 76/80 mm, length < 30 m	100.000	rm	2665.0	0
10.16	b) Drill holes up to ø 99 mm, length < 30 m	100.000	rm	8917.5	
10.17	Extra for core recovery	100.000	rm	8917.5	0,51,700.00
10.17	Installation of pipes				
10.19	Supply and installation of PVC pipes (plain or slotted) in drilled holes including				00 00 750 40
	fittings and accessories	15086.000	rm	189.6	
10.20	32mm dia	20643.000	rm	246.	50,78,178.00
10.21	65mm dia				
11.00	GROUTING & WATER PRESSURE TEST				
11.01	Complete in all respect with all plants, materials and labour as per technical specification, drawings and as directed by Engineer-in-Charge.				
11.02	Head Race Tunnel /Pressure Tunnel/Surge Shaft/Construction Adit	0040 000	Bag	666.	25 55,60,522.50
11.03	Contact grouting	8346.000	Cum	1281.	
11.04	Sand to be used in sand-cement grouting	200.000		666	
11.05	Consolidation grouting	23237.000	Bag	1281	
11.06		1000.000	Bag Kg	128	
11.07	Pre-grouting with Micro-fine Cement	10000.000	Ng	120	Q P





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1	2	4	5	6	7
11.08	Weir & Intake/ River diversion				
11.09	Contact/ fill/ permeation grouting	750.000	Bag	666.25	
11.10	Curtain grouting	1406.000	Bag	1281.25	18,01,437.50
11.11	Consolidation grouting	7392.000	Bag	666.25	49,24,920.00
11.12	Sand to be used in sand-cement grouting	200.000	cum	1281.25	2,56,250.00
11.13	Water pressure test				
11.14	Simple water pressure tests	50.000	No.	1793.75	89,687.50
11.15	Comprehensive water pressure tests	50.000	No.	1793.75	89,687.50
12.00	INSTRUMENTATION AND MONITORING		REVALUE.		
12.01	Complete in all respect with all plants, materials and labour as per technical specification, drawings and as directed by Engineer-in-Charge.				
12.02	Stress meter in Tunnel etc.	50.000	No.	11275.00	5,63,750.00
12.03	Load Cell for rock bolt and anchor	50.000	No.	35875.00	17,93,750.00
12.04	Load Cell for steel support	20.000	No.	35875.00	7,17,500.00
12.05	Extra cable length	100.000	rm	256.25	25,625.00
12.06	Portable readout units	1.000	No.	102500.00	1,02,500.00
12.07	Tape extensometer station	4.000	No.	112750.00	4,51,000.00
12.08	Optical convergence measurement station	80.000	No.	461.25	36,900.00
12.09	Inclinometer	1.000	No.	51250.00	51,250.00
12.10	Automatic Water Level Meter with Radar tyoe sensor	4.000	No.	56375.00	2,25,500.00
12.11	Automatic weather station	1.000	No.	102500.00	1,02,500.00
12.12	Strong Motion Accelerograph, complete	1.000	No.	328000.00	3,28,000.00
13.00	METALWORKS				
13.01	Supply, fitting and fixing of metal works in all structures. Complete in all respect with all plants, materials and labour as per technical specification, drawings and as directed by Engineer-in-Charge.				
13.03	Black steel pipe of 75mm dia	100.000	rm	1383.7	1,38,375.00
13.04	Miscellaneous fabricated minor steel structures like handrailing, ladder, cable tray etc.	12.000	MT	117875.0	
13.05	Water tight steel cover with support frame	500.000	kg	117.8	
13.06	Steel gratings	500.000	kg	117.8	
13.07	Steel chequered plates excluding frame	15.000	MT	117875.0	0 17,68,125.00



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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
		4	5	6	7
1	2	200.000	rm	7636.25	15,27,250.00
13.08	Rail (90R section)			117.88	58,940.00
13.09	Providing & fixing Bolts including Nuts & washer Plates, etc. complete in all respect (if not supplied by E/M or H/M Contractor)	500.000	kg MT	41000.00	
13.10	Erection/installation of Metal Works supplied by others	5.000	IVI I	41000.00	
14.00	RUIL DING AND ARCHITECTURAL WORKS				
14.01	Power House main and auxiliary buildings, valve house, Weir control room etc Complete in all respect with all plants, materials and labour as per technical specification, drawings and as directed by Engineer-in-Charge.	*			
14.02	Masonary Work and backfill				1,00,19,375.00
14.04	a) 230mm thick Brick Wall in cement mortar with 1st class brick in Proportion 1:4 (1 Cement: 4 Sand)	1150.000	m ³	8712.50	7 00 000 00
14.05	b) 112 mm thick 1st Class Brick Nogged WallIn cement mortar in proportion 1:4	700.000	m ²	1040.38	
14.06	c) Random Rubble Stone masonry in cement mortar in proportion 1:6(1	1249.000	m ³	6816.2	
14.07	d) Course rubble Stone masonry (first sort) in cement mortar in proportion 1:6	150.000	m ³	8097.5	
14.08	e) Course rubbleStone masonry (second sort) in cement mortar in proportion 1:6 (1 cement: 6 coarse sand)	150.000	m ³	7564.5	
14.09	f) Compacted Backfill with selected materials	9500.000	m^3	374.1	
THE PERSONNEL		750.000	m^3	1588.7	11,91,302.30
14.10	g) Gravel Fill Cement Plaster using Fine Sand in single coat including rises or rounded angles not exceeding 80mmgirth and finished even and amooth including curing complete as per technical specification and as directed by the Engineer-in-Charge		2	169.	9,30,215.00
14.12	a) 12 mm Thick Cement Plaster of Mix 1:4 (1 Cement: 4 Fine Sand)	5500.000	m ²	109.	
14.13	b) 15 mm Thick Cement plaster on the rough side of single or half brick wall of mix 1:4 (1 Cement: 4 Fine Sand)	5000.000	m ²	215.	10,000,00
44.44	c) 6mm Thick Plaster of Mix 1:3 (1 Cement: 3 Fine Sand)	562.000	m ²	86.	10
14.14	15 mm Thick Plaster of Mix 1.3 (1 Cements of the Seate) 15 mm Thick Cement Plaster finished with a floating coat of neat cement of mix: 1:3 (1 Cement : 3 Fine Sand)	1500.000	m ²	235.	75 3,53,625.00





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1	2	4	5	6	7
14.16	Providing and laying 25mm thick Damp Proof Course with cement concrete in prop 1:1.5:3 with graded stone aggregate of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing, etc. complete in all respect as per the technical specification and as directed by the Engineer-in-Charge	75.000	m²	379.25	28,443.75
14.17	Floor and wall finish				
14.18	Concrete Pavement & floor				
14.19	a) Providing and fixing 80 mm thick interlocking pre-cast blocks (of required shape and size) of cement concrete design mix M 35 (minimum cement @ 425 kg per Cum) smooth finish on top over 50 mm sand filling	2000.000	m ²	744.15	14,88,300.00
14.20	b) Providing & laying 65mm thick CC Floor with metallic concrete hardner topping under layer of 50mm thick cement concrete 1:2:4 (1 Cement: Coarse Sand: 4 Coarse Aggregate of 20mm & down) and top layer of 15mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix: 2 stone aggregate 6mm and down) by volume with which metallic hardening compound of approved quality is mixed in the ratio of 4:1 (4 parts of cement: 1 part of metallic floor hardening compound of approved quality by weight) including finishing with curing complete as directed	434.000	m ²	948.13	4,11,488.42
14.21	Vitrified Tiles				
14.22	a) On Floor: Providing Vitrified Floor Tiles of approved quality of specified size, shape and thickness not less than 18mm on floors over 15mm thick base of cement mortar in prop 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile/ White Cement Slurry mixed with approved pigment to match the shade of the tiles, complete at all levels as psecified in the technical specification and as directed by the Engineer-in-Charge Deluxe Range: Of Size 1200mm x 1600mm and above	222.000	m²	2639.3	8 5,85,942.36

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1	2	4	5	6	7
14.23	b) On Skirting: Providing Vitrified Floor Tiles of approved quality of specified size, shape and thickness not less than 18mm on skirting over 15mm thick base of cement mortar in prop 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile/ White Cement Slurry mixed with approved pigment to match the shade of the tiles, complete at all levels as psecified in the technical specification and as directed by the Engineer-in-Charge Deluxe Range: Of Size 1200mm x 1600mm and above	17.000	m²	2885.38	49,051.46
14.24	Epoxy Flooring: Providing and applying normal setting, self levelling epoxy modified cementitious floor topping Sikafloor 81 EpoCem of Sika (India) Ltd. using trowel followed by applying self smoothing epoxy floor coating Sikafloor 261(S) of Sika (India) Ltd./ Dr. Sealkit EPU Floor Self L (Asian Chemicals)/ MASTERTOP 542 ECC of BASF using serrated trowel and rolled with a spiked nylon roller after proper surface preparation and application of a priming coat of Sikafloor 80 Primer as specified and directed by the Engineer-in-Charge	1000.000	m²	953.2	5 9,53,250.00
14.25	Anti-Skid Tiles				
14.26	a) On Floor: Providing Anti Skid Tiles of approved quality size, shape and thickness not less than 8mm on floor over a cement mortar bed of 15mm thick in prop 1:3 (1 cement: 3 coarse sand) approved make fix with Fix-a_Tile/ White Cement complete at all level as specified in the technical specification and as directed by the Engineer-in-Charge Vitrified: Executive Range- 2 (Size 600mm x 600mm and above)	336.000	m²	1588.	5,33,820.0

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1	2	4	5	6	7
14.27	b) On Skirting: Providing Anti Skid Tiles of approved quality size, shape and thickness not less than 8mm on floor over a cement mortar bed of 15mm thick in prop 1:3 (1 cement: 3 coarse sand) approved make fix with Fix-a_Tile/ White Cement complete at all level as specified in the technical specification and as directed by the Engineer-in-Charge Vitrified: Executive Range- 2 (Size 600mm x 600mm and above)	30.000	m²	2203.75	66,112.50
14.28	Ceramic Tiles On Walls: Providing polished Ceramic Wall Tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10mm thick in prop. 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-a-Tile/ White Cement Slurry mixed with approved pigment to match the shade of tiles complete as all levels as specified in the technical specification and as directed by the Engineer-in-Charge Deluxe Range: Of Size 300mm x 450mm and above	200.000	m²	1137.75	2,27,550.00
14.29	Granite Flooring: Providing Polished Granite Tiles of approved quality, size shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15mm thick base of cement mortar in prop 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-a-Tile/ White Cement Slurry mixed with approved pigment to match the shade of tiles complete at all levels as specified in teh technical specification and as directed by the Engineer-in-Charge				
14.30	With Fix-a-Tile	100.000	m ²	2747.0	0 2,74,700.00
14.31	Polished Granite Skirting of approved size, quality, shapeand thickness not less than 20mm unless otherwise specified, laid in 1 part Cement and 3 part Coarse Sand mix; complete in all respect	21.000	m²	2747.0	0 57,687.00



SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
	2	4	5	6	7
14.32	Chequered precast cement concrete tiles 22mm thick jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning, etc. on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand): Medium shade pigment using 50% white cement & 50% grey cement	500.000	m ²	1342.75	6,71,375.00
14.33	Acid/ Alkali resistant Tiles: Providing and fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resistant mortar bedding and joints filled with acid and/or alkali resistant cement as per IS: 4457, complete as per the direction of the Engineer-in-Charge				4.00.045.00
14.34	a) In flooring on a bed of 10mm thick mortar 1:4 (1 acid proof cement: 4 coarse	120.000	m ²	1552.8	8 1,86,345.60
14.35	b) In dado/ Skirting on 12mm thick mortar 1:4 (1 acid proof cement: 4 coarse sand)	164.000	m ²	1678.9	5 2,75,347.80
14.36	Kota Stone Flooring				
14.37	a) Kota stone slab flooring over 20mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1:4 (1 cement: 4 coarse sand):	3400.000	m ²	1742.5	59,24,500.00
14.38	b) Kota Stone slabs 20mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	100.000	m²	2091.0	2,09,100.00
14.39	Dividing stripes, 4mm thick and average 40/35 mm wide in flooring work as per				20,500.00
AV MACESTE	specifications a) Providing 40mm wide & 4mm thick glass strips in joints	250.000	rm	82.	00
14.40	b) Aluminium Stripes	250.000	rm	246.	00 01,300.00
14.41	Doors & Fixtures				

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1	2	4	5	6	7
14.43	Providing and fixing 1mm thick MS Sheet door with frame of 40x40x6mm angle iron and 3mm MS Gusset Plates at the junctions and corners, all necessary fittings complete including applying a priming coat of approved steel primer including anodised fittings 4 nos MS butt hinges 75x60x3.15mm, 1 2 nos tower bolts 300x10mm, 2 nos door handle 150mm, 1 no sliding door bolt 300x16mm, 2 nos heavy duty door closure 180x65x64mm and 1 no mortice 6 lever lock per door complete				
14.44	i) Using MS Angles for 40x40x6mm for diagonal bracings	20.000	m ²	12248.75	2,44,975.00
14.45	Providing, fitting and fixing anodised aluminium framed glazed doors with anodised aluminium frame made of 100mm x 45mm x 2.5mm section of approved brand with door style of size 88mm x 45mm x 2.5mm, top rails 50mm x 45mm x 2mm, lock rails 100mm x 45mm x 2mm and bottom rails 100mm x 45mm x 2.5mm fitted with glazing clip, special type rubber gasket complete including hydraulic floor spring, pivot, tower bolt in each leaf, aluminium door handle, lock angles, cleat, etc. complete as specified and directed by the Engineer-in-Charge				
14.46	a) 6mm Clear Glass	20.000	m ²	14965.00	500 COM 900 CO
14.47	b) 5mm Frosted Glass	20.000	m ²	16066.88	3,21,337.60
14.48	Providing and fixing anodised aluminium frame double leaf doors of approved brand with styles size 45mm x 48mm x 3.2mm, top rails 50mm x 45mm x 2.5mm, lock rails 48mm x 45mm x 2.5mm, bottom rails 100mm x 45mm x 2.5mm fitted with tapper clips of size 20mm x 15mm x 1.2mm complete with automatic floor mounted door closure, butterfly type handles, special cylindrical lock, concealed type aluminium tower bolt, neoprene dryset rubber gasket, door felt gasket, etc. complete in all respect as directed by the Engineer-in-Charge at all levels				
14.49	a) 5mm thick Plain Frosted Glass	20.000	m ²	16066.8	***
14.50	b) 6mm thick Clear Glass	20.000	m ²	14965.0	2,99,300.00





Providing and fixing anodised aluminium framed single leaf door of approved brand with styles 45mm x 48mm x 3.2mm, top rails 50mm x 45mm x 2.5mm, ock rails 48mm x 45mm x 2.5mm, bottom rails 100mm x 45mm x 2.5mm fitted with tapper clips of size 20mm x 15mm x 1.2mm complete with automatic hydraulic mounted door closure, butterfly type handles, special cylindrical ocks, concealed type tower bolt, neoprene dryset, rubber gasket, etc. complete as directed by the Engineer-in-Charge as all levels	4	5	6	7
Providing and fixing anodised aluminium framed single leaf door of approved brand with styles 45mm x 48mm x 3.2mm, top rails 50mm x 45mm x 2.5mm, ock rails 48mm x 45mm x 2.5mm, bottom rails 100mm x 45mm x 2.5mm fitted with tapper clips of size 20mm x 15mm x 1.2mm complete with automatic hydraulic mounted door closure, butterfly type handles, special cylindrical ocks, concealed type tower bolt, neoprene dryset, rubber gasket, etc. complete as directed by the Engineer-in-Charge as all levels		6		
orand with styles 45mm x 48mm x 3.2mm, top rails 50mm x 45mm x 2.5mm, ock rails 48mm x 45mm x 2.5mm, bottom rails 100mm x 45mm x 2.5mm fitted with tapper clips of size 20mm x 15mm x 1.2mm complete with automatic hydraulic mounted door closure, butterfly type handles, special cylindrical ocks, concealed type tower bolt, neoprene dryset, rubber gasket, etc. complete as directed by the Engineer-in-Charge as all levels				
	20.000	m^2	14965.00	
	20.000	m ²	16066.88	3,21,337.60
Rolling Shutter Supplying and fixing rolling shutters of approved make, made of required size 80x1.25mm MS Laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shafts with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454- Part 1 and MS 1.25 mm thick Top Cover of required thickness including all accessories for rolling shutters for power house and valve house entrances	75.000	sqm	8169.25	5 6,12,693.75
Windows & Fixtures				
standard sections of approved brand without horizontal glazing bars joints mitred and welded (manufactured to relevant IS specifications) fitted with 6mm x 3.15mm lugs 100mm long embedded in CC Blocks 150mm x 100mm x 100mm in 1:3:6 mix including providing and fixing handles, fristion stays, joining cleat, bolting device, locking arrangement, spring catch as required complete as specified and directed for all levels				
Side Hung and Top Hung Windows and ventilators	44.000	2	11572.	25 1,62,011.5
a) 6mm Clear Glass				
b) 5mm Frosted Glass	14.000	. m	120001	
Fixed windows and ventilators	200,000	m ²	11572.	25 23,14,450.0
b F S 8 j S I a S I S	Rolling Shutter Supplying and fixing rolling shutters of approved make, made of required size 80x1.25mm MS Laths, interlocked together through their entire length and cointed together at the end by end locks, mounted on specially designed pipe shafts with brackets, side guides and arrangements for inside and outside ocking with push and pull operation complete, including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454- Part 1 and MS 1.25mm thick Top Cover of required thickness including all accessories for rolling shutters for power house and valve house entrances Windows & Fixtures Providing, fitting and fixing anodised aluminium windows and ventilators of standard sections of approved brand without horizontal glazing bars joints mitred and welded (manufactured to relevant IS specifications) fitted with 6mm x 3.15mm lugs 100mm long embedded in CC Blocks 150mm x 100mm x 100mm in 1:3:6 mix including providing and fixing handles, fristion stays, joining cleat, bolting device, locking arrangement, spring catch as required complete as specified and directed for all levels Side Hung and Top Hung Windows and ventilators a) 6mm Clear Glass b) 5mm Frosted Glass	20,000 Samm Plain Frosted Glass 20,000	in Smm Plain Frosted Glass Rolling Shutter Rolling Shutter States and arrangements for inside and outside Rolling With push and pull operation complete, including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454- Part 1 and MS 1.25 and MS 1	Somm Plain Frosted Glass 20,000 m² 10000.00

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
14.62	b) 5mm Frosted Glass	7.000	m ²	12658.75	88,611.25
14.63	PVC, FRP Doors & Door Frames				
14.64	PVC Frame: Providing, fitting and fixing Syntex PVC Door frame made out of extruded PVC section in an overall size of 50mm x 60mm having multi chamber cross section with maximum wall thickness of mm, +0.3mm with special polymeric reinforcement having an overall size of 30mm x 25mm width, 150mm length at hardware location. The corner joints shall be either mitre cut and welded or joined by means on concealed cleats with necessary screws fittings	25.000	rm ×s	1037.30	25,932.50
14.65	PVC Door Shutters: Providing, fitting and fixing PVC Door Shutters of 37mm (Single Panel Seamless Finish) of Syntex make, at all levels made o extruded sections in the configuration of "A". The overall dimension is 37mm x 90mm, with usual provess variation having a wall thickness of 2mm with a variation of +0.03mm provided with all plastic reinforcement to avoid rusting. The shutter frame is mitred and joined at the corners by means of stainless steel screws. The corners of the frame are being reinforced by polymeric reinforcement to the size 125mm x 250mm and the lock rail is reinforced by 45 x 18 x 255 size reinforcement	8.000	Sqm	9635.00	77,080.00
14.66	Fire Resistant Door				
14.67	a) Providing and fixing fire resistant door frames of section 143x57mm having built in rebate made out of 16 SWG GI Sheet (Zinc coating not less than 120 gm/sqm) duly filled with vermuculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumuscent fire seal strip of size 10x4mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying coat of approved brand fire reisitant primer, etc. complete as per direction of Engineer-in-Charge	16.000	rm	1037.30	16,596.80



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1	2	4	5	6	7
14.68	b) Providing and fixing 50mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS: 3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-Charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100mm wide, bottom rail 200mm wide, made out of 16 SWG GI Sheet (Zinc coating not less than 120 gm/m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer, etc. all complete as per direction of Engineer-in-Charge	8.000	m ²	12197.50	97,580.00
14.69	c) Providing and fixing glazing in fire resistant door shutters with GI beading made out of 1.6mm thick GI sheet (Zinc coating not less than 120 gm/m2) of size 20x33mm screwed with M4x38mm SS Screws at distance 75mm from the edges and 150mm c/c, including applying a coat of approved fire resistant primer/powder coating not less than 30 micron on GI beading & special ceramic tape of 5x20mm size etc. complete in all respect as per NBC 2016, IS: 16231 (part 3): 2016 and as per the direction of the Engineer-in-Charge with glass of required thickness having 60 minutes of fire resistance both integrity & radiation control (EW60) and minimum 20 minutes of Insulation (EI20).	8.000	m^2	12197.5	97,580.00
14.70	Glass and glazing: Providing & fixing glass panes with putty & glazing clips in steel doors, windows, clerestory window or any other specified location all complete with:				30,85,250.00
14.71	a) Clear float glass, 6 mm thick superior quality, first grade	1204.000	m ²	2562.5	
14.72	b) 4.0mm thick glass panes	200.000	m ²	2562.5	62 S. 2 S.
14.73	c) 5mm thick glass panes	200.000	m ²	2562.5	5,12,500.0
14.74	d) Double glazing of two 6mm thick sheet glass thermatically sealed "Penguin Pane" of Hindustan Safety Glass complete as per specification	200.000	m ²	2562.5	5,12,500.0
14.75	Roofing:				
14.76	Structural steel work bolted or welded in single or built-up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	272.000	МТ	194750.	5,29,72,000.0





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1	2	4	5	6	7
14.77	Supply, fabrication and erction permanently colour coated corrugated sheets of thickness 20 gauge as roof decking at various elevations including plants, labour, materials, scaffolding with all fitting and fixtures, complete in all respect	5829.000	m ²	1353.00	78,86,637.00
14.78	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25oC, 0.87-0.89 kg/litre and viscosity 70-160 cps. Over the primer coat, the layer of membrane shall be laid using butane torch and sealing all joints, etc. and preparing the surfacecomplete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23oC as 350/300 N/5 cm. Tear Strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150oC. Cold flexibility shall be upto -2oC when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane: 3mm thick	960.000	m²	548.38	5,26,444.80

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
14.79	Ceiling with Exposed Metal (GI) Frame Work with E-Grid-2430: Providing & Fixing in position Suspended false Ceiling using E- Grid (Exposed Ceiling Suspension 2430 System) of grid size 600mm x 600mm/ 1200mm x 600mm with main runner 38mm x 24mm, Cross Tee 29mm x 24mm & wall angle 24mm x 24mm. Using 4mm/ 6mm thick High pressure Stem Cured Non Asbestos Fibre cement Board as per IS: 14862, to be placed in a grid of GI System duly suspended with 4mm/ 6mm dia GI/ MS bar hanger fixed with steel dash fasteners or iron purlin from the roof with adjustment clip providing positions for light fixtures, air conditioning diffusers and ducts, sprinklers, smoke detectors, etc. The main runners to be secured to structural soffit by hanger @ 1220mm maximum c/c. The last hanger at the end of each main runner should be placed at more than 450mm from the adjacent wall. Flush fitting 1220mm Cross Tee to be interlocked between main runners @ 610mm c/c so as to form 600mm x 600mm/ 1200mm x 600mm grid all complete as per the drawings/ specification and as directed by the Engineer-in-Charge				
14.80	a) Designer Ceiling as directed by the Engineer-in-Charge Using 6mm thick FC Board	331.000	m ²	3741.2	
14.81	b) Standard Ceiling as directed by the Engineer-in-Charge Using 6mm thick FC Board	331.000	m ²	3741.2	5 12,38,353.75
14.82	c) Providing and fixing 15cm wide, 45cm overall semi-circular plain GS sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers, etc. including making necessary connections with rain water pipes complete: 0.80mm thick with zinc coating not less than 275 gm/m2	60.000	rm	1137.7	68,265.00
14.83	Painting				
14.84	Exterior Painting including primer of approved brand as directed by E-I-C				
14.85	a) Finishing Walls with Water Proofing cement based Paint of Required Shade Two or more coats applied as per manufacturer recommendations	1000.000	m ²	100.4	1,00,450.00
14.86	b) Finishing Walls with textured exterior paint of required shade: (two or more coats applied over & including priming coat of exterior primer as per manufacturer recommendations	1000.000	m ²	251.	2,51,130.0

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1	2	4	5	6	7
14.87	c) Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: (two or more coats applied over & including priming coat of exterior primer as per manufacturer recommendations)	3500.000	m²	169.13	5,91,955.00
14.88	Interior Painting				
14.89	Finishing with deluxe Multi Surface acrylic paint System of approved brand for interiors and exteriors including primer as per manufacturers specifications and as directed by the Engineer-in-Charge				
14.90	a) Two or more coats applied on walls over and including one coat of special primer as per approved brand and manufacturer recommendations	12000.000	m ²	164.00	19,68,000.00
14.91	b) Finishing with Epoxy Paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation on surface, etc. complete as per specification and as directed by the Engineer-in-Charge: On Concrete Works	5000.000	m ²	205.00	10,25,000.00
14.92	Painting of Steel Works				
14.94	Painting Steel Work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied over an under coat of primer approved brand and manufacturer	500.000	m²	143.50	71,750.00
14.95	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacturer and required colour over a priming coat of approved steel primer on new work				
14.96	a) 100mm Diameter Pipes	50.000	rm	71.75	
14.97	b) 150mm Diameter Pipes	50.000	rm	107.63	5,381.50
14.98	Providing two coats of JK wall Putty (White Cement based putty for Concrete/ Mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the Engineer-in-Charge (total thickness of two coats is maximum 1.5mm)	26000.000	m²	220.38	B 57,29,880.00
14.99	Chemical Resistant Paint	500.000	m ²	293.15	1,46,575.00
15.00	Fire Resistant Paint	4500.000	m ²	293.15	5 13,19,175.00

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			5	6	7
1	2	4	5		
15.01	Water Proof Coatings				
15.02	Applying one coat of epoxy coating followed by two coats of Polyurethane Waterproofing coating at an interval of 12 hours each for waterproofing as specified & directed by the Engineer-in-Charge	960.000	m ²	317.75	3,05,040.00
15.03	Applying 2 coats of 1mm thick acrylic polymer modified cementitious waterproofing coating of approved brand for waterproofing of structures as specified after proper surface preparation and soaking the surface with water prior to application complete in all respect as per technical specification and as directed by the Engineer-in-Charge	960.000	m ²	486.88	4,67,404.80
15.04	Hand Railing Providing, supplying, transportation and fixing polished stainless steel hand railing made out of SAIL/JINDAL or equivalent stainless steel pipes of 1.00 m height, 38 mm internal dia at 1.20 m spacing and top railing with 48 mm dia bottom horizontal pipe of 20 mm internal dia parallel to top and middle rails (two numbers) of 20 mm internal dia parallel to top & bottom, in addition 110 mm dia rounded stainless steel base for the verticals fixed to the floors. All the welding to be done using stainless steel electrode as IS:2211 (latest version) complete including carefully drilling of holes on floors of tread for vertical support grouting with white cement all round frame and fixing. All the SS section are to be finally cleaned neatly and buffed and well polished complete all material, labour, tools and plants, welding and erection charges etc. complete.	188.000	rm	5478.6	10,29,982.44
15.05	Pre- Laminated Particle Board Providing, fitting and fixing in position 62mm thick double skin partition with well seasoned Sal, Bonsum/ Sundi/ Hollock frame in size 75mm x 38mm and internal frame of 50mm x 38mm and fixing on both sides 8mm thick flat pressed melamine faced pre- laminated baggage board medium density fibre boards (MDF) bonded with phenol formaldehyde synthetic resin of approved shade as specified and directed at all levels. With bajaj- exterior grade (one side decorative) 8mm thick	142.000	sqm	14975.	25 21,26,485.50
15.06	Spandrel Glass Panelling				





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
15.07	a) Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi-rigid, inorganic, non-combustible fibre glass wool insulation 50mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5mm and nominal mass not less than 60gm/sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including 1.5mm thick solid aluminium sheet backing using 6mm thick cement boardincluding SS rivets, nuts, bolts, washers, etc. complete.	1353.000	m²	11234.00	1,51,99,602.00
15.08	b) Providing and supplying Spandrel Glass panels comprising of 6mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface# 2 of approved colour and shade so as to match the colour and shade so as to match the colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. all complete for the required performances as specified, as per the Architectural Drawings, as per the approved shop drawings, as specified, and as directed by the Engineer-in-Charge.	1264.000	m²	4494.63	56,81,212.32
15.09	Plinth Protection Works				
15.10	a) Providing Plinth Protection with Bricks flat laid in cement mortar 1:4 and finished with 15mm thick cement plaster in prop. 1:2 with a floating coat of neat cement finish	53.000	Sqm	1055.75	55,954.75
15.11	b) Providing drain with Cement Concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement plastering in prop 1:3 finished with a floating coat of cement slurry as directed with necessary shuttering for sides and earth work in excavation of foundation trenches and refilling sides after completion of work etc. as specified. 300mm wide and average 250mm deep with bed slope 1 in 150 with initial depth of 100mm	105.000	Rm	1127.50	1,18,387.50
15.12	Concrete Waterprooing				

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1	2	4	5	6	7
15.13	Providing, applying "XYPEX" Concrete Water Prooing & Durability Enhancement by Crystallization to be supported by at least two international test Reports showing clear scanning Electron Microscopic (SEM) Photographs of densified and mature crystals forming to plug all the capilary tracks and pores of the concrete permanently and permeability test as per IS: 720 conducted by CBRI. The Concrete should not absorb water more than 0.5 grams and not more than 1 mm from the concrete surface. The product to be listed in ICC-ES-EVALUATION REPORT INDEX January 2009. The treatment to be carried out on the concrete surfaces including cleaning of all RCC surfaces as per manuacturer's specification and as directed by the Engineer-in-Charge. The treatment to be carried out on the concrete suraces including cleaning of all RCC suraces as per manufacturer's specification/datasheet. The application to be carried out in two coats with coverage rate of 0.8 kg per coat.	2100.000	Sqm	538.13	11,30,073.00
16.00	PERMANENT DEWATERING, WATER SUPPLY, SEWAGE AND SANITATION WORKS				
16.01	Providing, fitting & fixing Vitreous Dual Flush/ Floor Mounted Coupled/ Extended Water Closet (European type WC Pan 400mm high) with seat & lead, flushing cistern, CP Brass Hinges and rubber buffers, Cl/ MS Brackets, 40mm dia flush band with fittings including painting of fittings and brackets, if required Hindware make or equivalent White One Piece Water Closet			02002.1	50 46,125.00
16.02	Altor (Cat. No. 92052) (Inclusive of Seat Cover and fittings) or equivalent	2.000	Each	23062.5	30
16.02	Coral (Cat. No. 92008) (Inclusive of Seat Cover and fittings) or equivalent	2.000	Each	23062.5	40,125.00
16.03	Elisa (Cat. No. 92046)/ Rubbic (Cat. No. 92063) (Inclusive of seat cover and fittings) or equivalent	2.000	Each	23062.9	10.105.00
16.05	Inox (Cat. No. 92043)/ Inox-100 (Cat. No. 92050) (Inclusive of seat cover & fittings) or equivalent	2.000	Each	23062.	50 46,125.00

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1	2	4	5	6	7
16.06	Providing, fitting and fixing vitreous flat back type lipped front urinal basin of automatic flushing cistern with standard flush pipe and CP brass spreader and brass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors whereever required Hindware make or equivalent White				
16.07	Aquafree Urinal (Cat. No. 60017) or equivalent	4.000	Each	41000.00	1,64,000.00
16.08	Urinal Omega E-Sense (Cat. No. 96006) or equivalent	4.000	Each	41000.00	1,64,000.00
16.09	Supplying, fitting and fixing Vitreous China Division Plate including fitting and fixing complete as directed and specified				
16.10	Hindware make or equivalent White New Division Plate (Cat. No. 61005) or equivalent	10.000	Each	4689.38	46,893.80
16.11	Providing Vitreous China wash basin with CI/ MS brackets, CP Brass Chain with Plug, PVC waste Pipe including painting of fittings and brackets, cutting and making good the walls whereever required Table Top Basin Jaquar make or equivalent				
16.12	Kubix (Cat. No. KUS-WHT-0552) or equivalent	2.000	Each	3479.88	
16.13	JDBC (Cat. No. JDS-WHT-0550) or equivalent	2.000	Each	3479.88	
16.14	JDBC (Cat. No. JDS-WHT-0547) or equivalent	2.000	Each	3479.88	6,959.76
16.15	Providing, fitting & fixing stainless steel kitchen sink of Parryware make with CI/MS Brakets, CP Brass Chain with Rubber Plug, PVC Waste Pipe, etc. complete including painting the fittings, cutting & making good the walls wherever required				
16.16	Parryware make or equivalent Single Bowl with veg bowl & Drain Board (400 x 200) Flat Edge- Glossy (Cat. No. C8545) or equivalent	2.000	Each	6437.00	12,874.00
16.17	Providing, fitting and fixing Decorative Mirror complete as directed and specified Parryware make or equivalent Size 600mm x 450mm	10.000	Each	12812.5	1,28,125.00



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		4	5	6	7
1	2				
16.18	Providing, fitting and fixing Glass Shelf complete as directed and specified Glass shelf with CP Guard Rail Jaquar make or equivalent Kubix 600mm long (Cat. No. AKB- 35771) or equivalent	10.000	Each	2583.00	25,830.00
16.19	Providing, fitting and fixing Glass Shelf complete as directed and specified Corner Glass Shelf with Brackets of Jaquar make Jaquar make or equivalent Continental (Cat. No. ACN- 1173) or equivalent	4.000	Each	3587.50	14,350.00
16.20	Providing, fitting and fixing CP Soap Tray/ Soap Dish complete as directed and specified Jaquar make or equivalent	v		4057.7	5,873.25
16.21	Queen's (Cat. No. AQN- 7731) or equivalent	3.000	Each	1957.7	0
16.22	Kubix (Cat. No. AKB- 35731) or equivalent	3.000	Each	1957.7	5,070.20
16.23	Providing, fitting and fixing Liquid Soap Dispenser and liquid soap container complete as directed and specified Jaquar make or equivalent			4754.7	38,038.00
16.24	Kubix make Glass Bottle (Cat. No. AKB- 35735) or equivalent	8.000	Each	4/54./	5 00,000.00
16.25	Providing, fitting and fixing CP towel rail complete as directed and specified				20 700 0
	Jaquar make or equivalent Queen's (600mm long) (Cat. No. AQN- 7711) or equivalent	8.000	Each	3587.5	
16.26	Queen's (450mm long) (Cat. No. AQN-7711A) or equivalent	8.000	Each	3587.	50 28,700.0
16.28	Providing, fitting and fixing Chrome Plated Towel Ring complete as directed and specified Jaquar make or equivalent Oueen's (Cat. No. AON- 7721) or equivalent	6.000	Each	1855.	25 11,131.5
16.29	Providing, fitting and fixing Chrome Plated Toilet paper Holder complete as directed and specified Jaquar make or equivalent				0.000
16.30	Continental Toilet Paper Holder with Flap (Cat. No. CAN- 1151N) or equivalent	4.000	Each	2480.	
16.31	Queen's Toilet Paper Holder with Flap (Cat. No. AQN- 7753) or equivalent	4.000	Each	2480	.50 9,922.0
16.32	Providing, fitting and fixing Chrome Plated Waste Coupling complete as directed and specified				PC PC





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
16.33	Jaquar make or equivalent 32mm (HT/FT) (Cat. No. ALD-705/ 709) or equivalent	15.000	Each	717.50	10,762.50
16.34	Cera make or equivalent Waste Coupling (Full Thread) 40mm (Cat. No. CA 103) or equivalent	15.000	Each	922.50	13,837.50
16.35	Providing, fitting and fixing Chrome Plated Bottle Trap complete as directed and specified Jaquar make or equivalent				
16.36	Bottle Trap (with internal partition) 32mm size with 250mm long wall connection pipe (Cat. No. ALD- 769) or equivalent	15.000	Each	2665.00	39,975.00
16.37	Bottle Trap (with internal partition) 32mm size with 300mm long wall connection pipe (Cat. No. ALD- 769B) or equivalent	15.000	Each	2972.50	44,587.50
16.38	Providing, fitting and fixing Chrome Plated Grating complete as directed and specified				
16.39	160mm Dia	15.000	Each	205.00	
16.40	110mm Dia	10.000	Each	205.00	2,050.00
16.41	Supplying, fitting and fixing approved brand uPVC Pipes of different sizes, with all necessary approved uPVC Fittings such as bend, Tee, Elbow, reducer, nipple, plug, tee, long screw fitting, clamps, etc. complete at all levels including below GL as directed and specified				
16.42	Exposed or in Trenches Supreme/ Prince/ SFMC Brand or other equivalent approved brand (High Pressure pvc Pipe Sch-40)				
16.43	a) 50mm dia	300.000	rm	948.13	The state of the s
16.44	b) 40mm dia	300.000	rm	691.8	
16.45	c) 32mm dia	300.000	rm	512.5	
16.46	d) 25mm dia	200.000	rm	420.2	
16.47	e) 20mm dia	50.000	rm	333.1	
16.48	f) 15mm dia	50.000	rm	261.3	13,069.00
16.49	Concealed by Chiselling or breaking brick wall/ CC wall/ RC Wall and making good to the damaged structure Supreme/ Prince/ SFMC Brand or other equivalent approved brand (High Pressure PVC Pipe Sch-40)				
16.50	a) 25mm dia	100.000	rm	640.6	3 64,063.00





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		4	5	6	7
1	2	150.000	rm	527.88	
	b) 20mm dia	150.000	rm	451.00	67,650.00
16.52	c) 15mm dia	130.000	THE STATE OF THE S		
16.53	Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC Plain and Brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes joining of pipe. Exposed or in trenches	400000		953.2	5 95,325.00
16.54	50mm dia	100.000	rm	691.8	
16.55	40mm dia	100.000	rm	513.5	
16.56	32mm dia	100.000	rm	420.2	
16.57	25mm dia	100.000	rm	420.2	42,020.00
16.58	Spupplying, fitting and fixing CP Bib Cock 15mm dia of approved brand as directed and specified Jaquar make or equivalent			312.6	3 2,501.04
16.59	Bib Cock Long Thread	8.000	Each	100000000000000000000000000000000000000	
16.60	2- Way Bib Cock	6.000	Each	312.6	1,073.70
16.61	Supplying, fitting and fixing Chrome Plated (CP) Stop Cock of approved brand and size as mentioned below as directed and specified Jaguar make or equivalent			3075.0	30,750.00
16.62	15mm dia Angular Stop Cock	10.000	Each		
16.63	15mm dia Angular Stop Cock with long thread	10.000	Each	3587.5	79
16.64	15mm dia Concealed Stop Cock reduced body	10.000	Each	2383.	25,051.50
16.65	Supplying, fitting and fixing CP Piller Cock of 15mm dia of approved brand as specified and directed Jaquar make or equivalent	0.000	- Fact	4335.	75 26,014.5
16.66	Contenental	6.000	Each	5422.	70
16.67	Long Neck with areator	6.000	Each	3422.	20 32,000.0
16.68	Supplying, fitting and fixing Chrome Plated Sink Cock of approved brand as directed and specified Jaquar, Continental, Clarion or equivalent make or equivalent	9.000	F1	6150.	00 12,300.0
16.69	Sink Cock with raised J shaped swinging spout	2.000	Each	6130.	00





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1	2	4	5	6	7
16.70	Supplying, fitting & fixing Chrome Plated Flush Cock of approved brand as directed and specified Jaquar make or equivalent Continental/ Clarion or equivalent				
16.71	Flush Cock with wall flange 25mm with level knob	10.000	Each	989.13	
16.72	Flush Cock with wall flange 25mm with plain knob	10.000	Each	989.13	9,891.30
16.73	Supplying, fitting & fixing Chrome Plated Shower 15mm dia of approved brand as directed and specified Jaquar / continental/ Queens's collection make or equivalent				
16.74	Overhead Shower (ABS Chrome Plated) with rubit cleaning system	1.000	Each	2716.25	2,716.25
16.75	Overhead Rose Shower with revolving joint & 150mm long swivel shower arm	2.000	Each	12300.00	24,600.00
16.76	Supplying, fitting and fixing Chrome Plated Wall Mixer Jaquar / continental/ Queens's collection make or equivalent				
16.77	Wall Mixer 3 in 1 system with provision for both telephonic shower and overhead shower complete with 115mm long bend pipe Cat. No. 1119	2.000	Each	9553.00	19,106.00
16.78	Supplying, fitting & fixing Push Bib Cock 15mm dia complete as specified & directed by the Engineer-in-Charge				
16.79	CPCH Heavy Type	10.000	Each	1230.00	12,300.00
16.80	Supplying, fitting & fixing best quality ball valve of approved brand as specified and directed				
16.81	25mm dia	5.000	Each	328.00	
16.82	20mm dia	5.000	Each	174.25	871.25
16.83	Supplying, fitting and fixing best quality Check Valve of approved brand including necessary threads to pipes				
16.84	50mm dia (Heavy Type)	10.000	Each	563.75	
16.85	40mm dia (Heavy Type)	10.000	Each	420.2	5 4,202.50
16.86	Supplying, fitting and fixing best quality GI Foot Valve of approved brand with strainer including cutting necessary threads to pipes				
16.87	50mm dia (Heavy Type)	5.000	Each	461.2	
16.88	40mm dia (Heavy Type)	5.000	Each	461.2	5 2,306.25





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	2	4	5	6	7
16.89	Supplying & fitting Polyethylene water storage Tank make over stagging with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet & outlet pipes Sintex make				40.007.00
10.00	A COLUMN TO COMPANY TO COLUMN TO COL	1.000	Each	19885.00	March Control of the
16.90	2000 Itr Capacity	1.000	Each	14913.75	
16.91	1500 ltr Capacity	1.000	Each	9942.50	9,942.50
16.92 16.93	1000 Ltr Capacity Labour of erecting and placing PCVC Tank over the staging up to a height of 5.00m complete as directed				5,125.00
16.94	2000 ltr Capacity	1.000	Each	5125.00	
16.95	1500 ltr Capacity	1.000	Each	5125.00	
16.96	1000 Ltr Capacity	1.000	Each	5125.00	5,125.00
16.97	Supplying, fitting & fixing uPVC Pipes of best quality of approved brand of 6kg/cm2 class including joining, fitting & fixing with clamps, etc. as necessary complete at all levels as rain water down comer and other purpose including below GL as directed and specified In exposed surfaces or in trenches			4407.0	0 2,76,750.00
16.98	160mm dia	250.000	rm	1107.0	
16.99	110mm dia	175.000	rm	738.0	1,29,130.00
17.00	Supplying, fitting & fixing 87.5 degree best quality uPVC bend of approved brand with door including joining, fitting & fixing, etc. as necessary complete at all levels including below GL as directed and specified In exposed surfaces or in trenches			451.0	00 4,510.00
17.01	160mm dia	10.000	Each	184.5	
17.02	110mm dia	10.000	Each	184.5	1,045.00
17.03	Supplying, fitting & fixing 45 degree PVC bend including joining, fitting and fixing, etc. as necessary complete at all levels including below GL as directed & specified In exposed surfaces or in trenches	12.00	5.4	384.	3.843.8
17.04	160mm dia	10.000	Each	164.	30
17.05	110mm dia	10.000	Each	164.	1,010.0



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1	2	4	5	6	7
17.06	Supplying, fitting and fixing best quality PVC single TEE of approved brand including joining, fitting and fixing, etc. as necessary complete at all levels including below GL as directed and specified In exposed surfaces or in trenches				
17.07	160mm dia	10.000	Each	666.25	
17.08	110mm dia	10.000	Each	271.63	2,716.30
17.09	Supplying, fitting and fixing PVC single Y with door including joining, fitting and fixing, etc. as necessary complete at all levels including below GL as directed and specified In exposed surfaces or in trenches 110mm dia	5.000	Each	348.50	1,742.50
17.10	Supplying, fitting and fixing best quality PVC Double Y with door of approved brand including joining, fitting and fixing, etc. as necessary complete at all levels including below GL as directed and specified In exposed surfaces or in trenches 110mm dia	5.000	Each	440.75	2,203.75
17.11	Supplying, fitting & fixing best quality PVC Cross T with door of approved brand including joining, fitting & fixing, etc. as necessary complete at all levels including below GL as directed and specified In exposed surfaces or in trenches 110mm x 110mm	10.000	Each	399.75	3,997.50
17.12	Supplying, fitting & fixing PVC Coupler including joining, fitting and fixing, etc. as necessary complete at all levels including below GL as directed and specified In exposed surfaces or in trenches 110mm dia	10.000	Each	153.7	5 1,537.50
17.13	Supplying, fitting and fixing PVC reducer including joining, fitting & fixing, etc. as necessary complete at all levels includign below GL as directed and specified In exposed surfaces or in trenches 160mm x 110mm	10.000	Each	307.5	3,075.00

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
	2	4	5	6	7
17.14	Supplying, fitting & fixing PVC reducing Tee with door including joining, fitting and fixing, etc. in exposed surfaces or trenches as necessary complete at all levels including below GL as directed and specified	10.000	Each	553.50	5,535.00
17.15	Supplying, fitting and fixing PVC Socket Plug including joining, fitting & fixing, etc. in exposed surfaces or in trenches as necessary complete at all levels including below GL as directed and specified	10.000	Each	153.75	1,537.50
17.16	Supplying, fitting and fixing PVC cleaning pipe including joining, fitting and fixing, etc. in exposed surface or trenches as necessary complete at all levels including below GL as directed and specified			871.2	8,712.50
17.17	160mm dia	10.000	Each	404.8	
17.18	110mm dia	10.000	Each	404.0	1,010.00
17.19	Providing, fitting & fixing PVC Cowel of ISI make complete as directed and specified			040	5 840.50
17.20	160mm dia PVC Cowel of ISI make	10.000	Each	84.0	0
17.21	110mm dia PVC Cowel of ISI make	10.000	Each	31.7	8 317.00
17.22	Providing, fitting & fixing 450mm dia 90mm thick CI man hole cover & frame of 58kg weight complete as directed and specified	5.000	Each	8353.7	5 41,768.75
17.23	Roof drain heads with horizontal gratings, complete as per specification			404.8	8,097.6
17.24	For 100 mm dia. pipe	20.000	No.	871.2	9
17.25	For 150 mm dia. pipe	80.000	No.	1276.1	.0
17.26	For 200 mm dia. pipe	20.000	No.	1276.	20,022.0
17.27	Cast iron floor trap Nahni or ordinary type of self cleaning design and conforming to IS:1729 complete as per specification		21292	142	50 861.0
17.28	75 mm size	6.000	No.	143. ¹	,,,
17.29	100 mm size.	6.000	No.	174	1,040.0
17.30	Brass gate valves solid wedge type with non-rising stem conforming to IS: complete as per specification		1	548.	38 1,645.1
17.31	25 mm NB	3.000	No.	604.	00
17.32	32 mm NB	3.000	No.	727.	
17.33	40 mm NB	3.000	No.	902.	10
17.34	50 mm NB	3.000	No.	902.	PC

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
17.35	Light duty non-pressure RCC pipes conforming to IS:458, complete as per specification				
17.36	500 mm NB, class NP2	15.000	rm	1788.63	26,829.45
17.37	600 mm NB, class NP2	30.000	rm	2125.50	63,765.00
17.38	Connection of drain or sewer line with existing manhole all complete	10.000	No.	1025.00	10,250.00
17.39	Drainage facilities				
17.40	Open surface drains d=250mm, reinforced concrete	1000.000	rm	1537.50	15,37,500.00
17.41	Open surface drains, trapezoidal channels w = 0.8m, h = 0.6m, reinforced concrete	1000.000	rm	2029.50	20,29,500.00
17.42	PVC pipes d= 250mm perforated or plain	200.000	rm	1537.50	3,07,500.00
17.43	Open surface drain with bricks, complete as per specification.				
17.44	a) Nominal size 15 cm X 20 cm	100.000	rm	820.00	82,000.00
17.45	b) Nominal size 20 cm X 30 cm	150.000	rm	922.50	
17.46	c) Nominal size 50 cm X 20 cm	200.000	rm	1230.00	
17.47	Permanent Dewatering for Head Race Tunnel				
17.48	Drain pipe 300mm diameter (cast steel)	50.000	rm	5371.00	2,68,550.00
17.49	Open drain				
17.50	a) Bottom width or pipe diameter up to 35 cm	300.000	rm	717.50	2,15,250.00
17.51	b) Bottom width or pipe diameter 35 - 50 cm	300.000	rm	922.50	
17.52	Supply and installation of best quality non return valve of approved brand 300mm diameter	10.000	No.	39975.00	
17.53	Cast iron spun pipe, class A, conforming to IS:1536 complete as per specification				
17.54	100 mm NB	10.000	rm	1240.25	12,402.50
17.55	150 mm NB	10.000	rm	1870.63	18,706.30
17.56	200 mm NB	10.000	rm	3126.13	31,261.30
17.57	250 mm NB	10.000	rm	4130.75	41,307.50
17.58	300 mm NB	10.000	rm	5565.75	55,657.50
17.59	Glazed stone ware pipes of approved brand grade "A" conforming to IS:651 complete as per specification				
17.60	100 mm NB	10.000	rm	384.38	3,843.80
17.61	150 mm NB	10.000	rm	604.75	6,047.50

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	2	4	5	6	7
1	2	10.000	rm	850.75	
17.62	200 mm NB	10.000	rm	1819.38	18,193.80
17.63	300 mm NB	10.000			
17.64	Manhole of RCC grade M20 all complete				
17.65	Rectangular shaped manhole	6.000	No.	25010.00	1,50,060.00
17.66	a) For depths from 0.6 to 0.9 m inside size 1.2 X 0.9 m	6.000	No.	39975.00	2,39,850.00
17.67	b) For depths from 0.9 to 2.3 m inside 2.9.1size 1.2 X 0.9 m	10.000	No.	804.63	8,046.30
17.68 17.69	c) Connection of drain or sewer line with manhole Construction septic tank as per IS:2470(part-I) complete as per specification but excluding the cost of steel reinforcement	10.000	110.		
17.70	Size 2.3 m X 1.1 m with 1.80 m liquid depth(for 20 users)	1.000	No.	36848.75	
31/9/17/5/2014/20	Size 5.0 m X 2.0 m with 1.24 m liquid depth(for 50 users)	1.000	No.	77151.7	77,151.75
17.71 17.72	Road gully chamber of brickwork, including grating with frame, excavation filling and disposal of surplus earth all complete	3.000	No.	10865.00	32,595.00
18.00	ROAD WORKS				
18.01	Preparation and consolidation of subgrade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations, etc. and re-rolling the sub-grade and disposal of the surplus earth with lead upto 500m	48000.000	Sqm	184.5	88,56,000.00
18.02	Supplying and stacking at site			1,988.5	0 55,67,800.00
18.03	90mm to 45mm size stone aggregate	2800.000	Cum	1,665.3	
18.04	63mm to 45mm size stone sggregate	2800.000	Cum	1,886.0	
18.05	53mm to 22.4mm size stone aggregate	2800.000	Cum	1,911.6	And the second s
18.06	Stone Screening 13.2mm nominal size (Type A)	540.000	Cum	2,121.7	
18.07	Stone Screening 11.2mm nominal size (Type B)	396.000	Cum	2,121.7	0,10,210.00
18.08	Construction of Subgrade and Earthen Shoulders (Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2) including loading, unloading, transportation, etc.eads as such loading unloading charges are not required to be applied additionally	2748.000	Cum	307.5	8,45,010.00



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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
18.09	Preparation and Surface Treatment of formation. (Preparation and surface treatment of formation by removing mud and slurry, watering to the extent needed to maintain the desired moisture content, trimming to the required line, grade, profile and rolling with 8-10 tonne smooth wheeled roller, complete as per clause 310.)	14000.000	Sqm.	15.38	2,15,320.00
18.10	Granular Sub-Base				
18.11	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401) including loading, unloading, transportation, etc.				
18.12	i) for grading- V/VI Material	4752.000	Cum	1,962.88	93,27,605.76
18.13	Wet Mix Macadam: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density including loading, unloading, transportation, etc.	4287.000	Cum	2,183.25	93,59,592.75
18.14	Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface. Including consolidation with road roller of 6 to 8 tonne capacity, etc. complete: Using bitumen emulsion (minimum 50% bitumen content RS grade conforming to IS: 8887)	30000.000	m²	174.25	52,27,500.00
18.15	Surface dressing one coat on old surface with bitumen of specified grade at the rate of 1.22 kg/sqm of surface area with 1.10 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete: Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS: 8887)	36000.000	m²	110.7	39,85,200.00

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
	2	4	5	6	7
18.16	Providing and applying tack coat using hot straight run bitumen of grade VG-10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications: On bituminious surface @ 0.50 kg/sqm	30000.000	m²	37.93	11,37,900.00
18.17	Providing and laying bituminous concrte (Gr-2) with approved hot mix plant using crushed aggregate of specified grading, premix with bituminous binder @5.4 to 5.6% of mix and filler transporting the hot mix to work site, laying with a hydrostatic paver finisher with censor control to the required grade level and alignment, rolling with smooth wheeled, vibratory and tandem rollerers to achieve the desired compaction as per MoRTH specification clause no 509 complete in all respect	1050.000	Cum	16,041.25	1,68,43,312.50
18.18	Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG-10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete	30000.000	m²	82.00	24,60,000.00
18.19	Concrete Pavements			2.00	
18.20	Cement Concrete in pavements, laid to required slope and camber in panels as required including consolidation finishing and tampering complete	1000.000	Cum	8,686.8	8 86,86,880.00
18.21	Proving & fixing in position pre-moulded joint filler in expansion joints	40000.000	per cm depth per cm width per m length	8.2	0 3,28,000.00
18.22	Providing and laying in position bitumen hot sealing compound for expansion joint etc.: Using grade "A" sealing compound	40000.000	per cm depth per cm width per m length	5.1	3 2,05,200.00
18.23	SURFACE EXCAVATION AND BACKFILL				
18.24	Surface excavation including loading, transport, all lift and lead up to 3.0 km from the excavation area/working site, unloading at disposal sites or stockpiles and maintenance of the disposal sites or stockpiles.				
18.25	Permanent roads				40.74.000.0
18.26	Clearing of excavation areas, disposal areas and stockpiles (Rate as per BOQ Item No. 2.03)	40000.000	m2	31.	78 12,71,200.0





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1	2	4	5	6	7
18.27	Excavation in soil including stripping of top soil (Rate as per BOQ Item No. 2.04)	78013.000	m3	174.25	1,35,93,765.25
18.28	Excavation in soft and disintegrated rock (Rate as per BOQ Item No. 2.05)	78013.000	m3	266.50	2,07,90,464.50
18.29	Excavation in hard rock				
18.30	a) Drilling and blasting (Rate as per BOQ Item No. 2.07)	104018.000	m3	433.06	4,50,46,035.08
18.31	Sand-gravel backfill (Rate as per BOQ Item No. 2.29)	575.000	m3	1,343.68	7,72,616.00
18.32	Concreting				
18.33	Complete in all respect with all plants, materials, labour, all lead and lift etc. as per technical specification, drawings and as directed by Engineer-in-Charge. Plain/reinforced cement concrete for Permanent Roads excluding				
18.34	formwork				
18.35	M10A40 (Rate as per BOQ Item No. 6.04)	600.000	m3	4,920.00	
18.36	M15A40 (Rate as per BOQ Item No. 6.05)	420.000	m3	5,330.00	
18.37	M20A40 (Rate as per BOQ Item No. 6.06)	465.000	m3	6,150.00	
18.38	M25A20 (Rate as per BOQ Item No. 6.08)	475.000	m3	6,508.75	30,91,656.25
18.39	Formwork				
18.40	Formwork for cast-in-situ concrete works, complete in all respect with all plants, materials, labour, all lead and lift etc. complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge. For all formed surfaces where the formwork is not included in the payment of concrete.				
18.41	F-1 Surface finish (Rate as per BOQ Item No. 7.02)	900.000	m2	820.00	7,38,000.00
18.42	STEEL FOR REINFORCEMENT				
18.43	High yield strength deformed reinforcement bar/ wire of Fe500 grade complete in all respect with all plants, materials, labour, all lead and lift etc. as per technical specification, drawings and as directed by Engineer-in-Charge. (Rate as per BOQ Item No.8.02)	101.000	МТ	91,225.00	92,13,725.00
18.44	SLOPE PROTECTION				
18.45	Slope protection in surface excavation including all plants, materials and labour. Complete in all respect as per technical specification, drawings and as directed by Engineer-in-Charge				
18.46	Gabions (Rate as per BOQ Item No. 5.09)	3920.000	m3	4,141.0	1,62,32,720.00





SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
	2	4	5	6	7
1	Random Rubble Stone masonry in cement mortar in proportion 1:6 (1 cement:	605.000	m3	6,816.25	41,23,831.25
18.47	6 coarse sand) (Rate as per BOQ Item No. 14.06)	5442.000	m3	4,920.00	2,67,74,640.00
18.48	M10A150 Plum Concrete (Rate as per BOQ Item No. 6.03)	5442.000	1110	1,020.0	
18.49	15 mm Thick Cement Plaster finished with a floating coat of neat cement of mix: 1:3 (1 Cement : 3 Fine Sand) (Rate as per BOQ Item No. 14.15)	2538.000	m2	235.75	5,98,333.50
19.00	MISCELLANEOUS WORKS				
19.01	Complete in all respect with all plants, materials and labour as per technical specification, drawings and as directed by Engineer-in-Charge.				
19.02	Supply and installation of PE pipes			389.50	58,425.00
19.03	25mm dia	150.000	rm	666.2	
19.04	40mm dia	50.000	rm	153.7	
19.05	Weep holes including materials and labour complete	200.000	No.	100.7	0
19.06	Fencing Works				
19.07	Providing and fixing Chain Link Fencing including barbed wires, GI wires, stapples, pins, eye bolts, etc. as per specification and drawings complete. (Cost of Posts, struts, earth work and concrete work to be paid separately).	200.000	rm	20.5	0 4,100.00
19.08	Supplying at site angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10cm length and drilling holes upto 10mm dia. etc. complete	3000.000	kg	102.5	3,07,500.00
19.09	Dismantling & Demolition				
19.10	Demolishing stone masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable materials within 50m lead as per direction of Engineer-in-Charge	1000.000	Cum	2080.7	75 20,80,750.00
19.11	Demolishing gabion manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable materials within 50m lead as per direction of Engineer-in-Charge	4926.500	Cum	2080.	75 1,02,50,814.8

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SI. No.	Item Description	Quantity	Units	RATE inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR	TOTAL AMOUNT inclusive of all applicable Taxes, Duties, Levies, Cess etc. in INR
1	2	4	5	6	7
19.12	Demolishing Plain/Reinforced Cement Concrete manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable materials within 50m lead as per direction of Engineer-in-Charge	5625.000	Cum	3003.25	
	Total in Figures				4,58,14,42,765.23
Rupees four hundred fifty eight crore, fourteen lakh, forty two thousand sev		and seven hundred sixty five and paise twenty three only			

02/05/2025

ब्य-महाप्रवंधक (सी) सी एण्ड पी Dy. General Manager (C) C&P नीपको लि., शिलांग NEEPCO Ltd., Shillong

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O/o The Executive Director (C&P)
NEEPCO Ltd., Shillong-3

ADDITIONAL PERFORMANCE SECURITY BANK GUARANTEE FORM (To be submitted by the Contractor)

(To be stamped in accordance with Stamp Act if any, of the Country of the Issuing Bank)

	Bank Guarantee No
	Date
To,	
[Employer's Name & Address]	
Dear Sirs,	
In consideration of the [Employer's Name] (hereinafter reference expression shall unless repugnant to the context or meaning the administrators and assigns) having awarded to M/s[Contratal Registered/Head Office at	rereof, include its successors, actor's Name] with its to as the 'Contractor', which bereof, include its successors, ployer's Letter of Acceptance by the Contractor, forName of the Works] and the nce Guarantee for the faithful
We	ich expression shall, unless ors, administrators, executors loyer, on demand any and all

The Employer shall have the fullest liberty, without affecting in any way the liability of the Bank under this guarantee, from time to time to extend the time for performance of the Contract by the Contractor. The Employer shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Employer and the Contractor or any other course or remedy or security available to the Employer. The Bank shall not be released of its obligations under these presents by any exercise by the Employer of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part

of the Employer or any other indulgence shown by the Employer or by any other matter or thing whatsoever which under the law would, but for this provision have the effect of relieving the Bank.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Employer may have in relation to the Contractor's liabilities.

i) Our liability under this Bank Guara	ntee shall not exceed(*)
ii) This Bank Guarantee shall be valid	Upto
only and only if Employer serves	ed amount or any part thereof under this Bank Guarantee upon Bank a written claim or demand on or before (@)
	to and without prejudice to any other security Guarantee (s) Employer available with the Employer.
	(Signature)
(Signature)	
	(Name)
(Name)	
(Official Address)	(Designation with Bank
	Stamp)/with staff Authority no.
	Complete Address of the Bank with Tele-Fax & email

Notes:

- 1. (*) This sum shall be 5% percent of the Accepted differential amount of the estimated and quoted price (INR 104.79 Crore) as agreed by the Contractor vide MOM dated 12-04-2025.
 - (@) This date will be sixty (60) days after the end of the Defects Notification Period
 - (**) Employer may also present any of his demands at the counters of the.......(Name and branch of the Bank in India)........ for further relay to us. (To be inserted in case of a foreign currency bank guarantee issued by an overseas bank outside India) (+) This date will be guided by Clause 4.2 of GCC/PCC.
- 2. Bank Guarantee should be executed on appropriate stamp paper of requisite value, such stamp paper should be purchased in the name of Issuing Bank, not more than six (6) months prior to execution / issuance of Bank Guarantee. The name of the purchaser should appear at the back side of stamp paper in the Vendors Stamp. Bank guarantee should contain rubber stamp of the authorized signatory of the bank indicating the name, designation and signature/power of attorney number as well as telephone/fax numbers/email with full correspondence address of the Bank.

In case the same is issued by a first class International Bank, the law prevalent in the country of execution shall prevail for the purpose of Stamp Duty on the Bank Guarantee. However, in such a case, the bank Guarantee shall be got confirmed through any Indian Scheduled/Nationalized Bank.

- 3. Bank Guarantee is required to be submitted directly to the Employer by the issuing bank (on behalf of Contractor) under registered post (A.D.). The Contractor can submit an advance copy of Bank Guarantee to the Employer.
- 4. The issuing bank shall write the name of bank's controlling branch/ Head Office along with contact details like telephone/ fax/email and full correspondence address in order to get the confirmation of BG from that branch/ Head office, if so required.