

NHPC LIMITED
(A Govt. of India Enterprise)
CIN: L40101HR1975GOI032564

Corrigendum No.4

Name of the Work: Lot-I Package: Civil works comprising of Head Race Tunnel including Adits, Surge Shaft including Adits, Pressure Shaft/Penstock including Adits, Underground Power House Cavern, Bus Ducts, Underground Transformer Cavern, Underground Draft Tube Gate Operation Cavern, Mat and Other Adits / Access Tunnels in Power House Area, Cable cum Ventilation Tunnel, Ventilation Shafts, Downstream Surge Galleries, Tail Race Tunnel including Adits and TRT Outlet Structure” for the implementation of the 240 MW Uri-I Stage-II H.E Project, located near Boniyar, Uri villages in the Baramulla District of UT of J&K, India.

Tender Id: 2025_NHPC_859472_1

Tender Specification No.: NH/CCW/CC-III/CO-389/PR10625/25

Date of Corrigendum: 23.06.2025

S. No.	Clause No.	Bid Condition	Amendment
Volume-0 (NIT & ITB)			
1.	Clause 4.1.2.2 SPECIFIC EXPERIENCE CRITERIA	<p>Experience of Tunnelling with Drill & Blast Method (DBM):</p> <p>a) Completion of excavation of at least one tunnel of minimum 4.0 m excavated diameter with minimum length of 5.0 Km.</p> <p>AND</p> <p>(b) Completion of concrete lined tunnel of minimum 3.0 km length from one Project of 3.0 m finished diameter.</p> <p>Note: <i>In case of tunnelling works, the experience of tunnelling of highway tunnel / railway tunnel/ Metro tunnel shall also be considered.</i></p>	<p>Experience of Tunnelling with Drill & Blast Method (DBM)/NATM:</p> <p>(a) <i>Completion of excavation of at least one tunnel of minimum 4.0 m diameter of the proposed tunnel with minimum length of 5.0 km <u>in Ongoing / Completed Projects.</u></i></p> <p>AND</p> <p>(b) <i>Completion of concrete lined tunnel of minimum 3 km length from one project of 3 m finished diameter <u>in Ongoing / Completed Projects.</u></i></p>

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S. No.	Clause No.	Bid Condition	Amendment
			<p><i>Note:</i></p> <p>i. In case of tunneling works, the experience of tunneling of highway tunnel / railway tunnel/ Metro tunnel shall also be considered.</p> <p>ii. <u>Further in respect of s.no. (i) above, if tunnel(s) are constructed in multiple stretches in a single project, the cumulative length shall be considered for the purpose of qualifying criteria, however the minimum length of a single stretch of Tunnel should not be less than 0.5 Km in the same Project.</u></p> <p>iii. <u>In case of ongoing project, the amount /quantum of work done shall be considered for the purpose of qualifying criteria.</u></p>
2.	Notes under Clause 4.1: Technical Criteria	<p>1) Bidder should have executed one or more works of similar nature and magnitude covered under the tendered work package in a substantially completed / completed project during the preceding 20 years.</p> <p>2) The reference date for considering the period of 20 years shall be reckoned from the last day of month previous to the one in which Tender is invited.</p> <p>3) The work experience for excavation and concreting mentioned in Sub-Clause 4.1.2.3 may be from different projects.</p> <p>4) Substantial Completion is when the works are completed in a condition that it is capable of being occupied and used by Employer for the purpose for which it is intended. Substantial completion shall be based on 80 (eighty) per cent (value wise) or more works completed under the contract. Substantial completion should not be defined in terms of percentage completion, rather it should be based on functional</p>	<p>1) Bidder should have executed one or more works of similar nature and magnitude covered under the tendered work package in a substantially completed / <u>ongoing</u> / completed project during the preceding 20 years.</p> <p>2) The reference date for considering the period of 20 years shall be reckoned from the last day of month previous to the one in which Tender is invited.</p> <p>3) The work experience for excavation and concreting mentioned in Sub-Clause <u>4.1.2.2 &</u> 4.1.2.3 may be from different projects.</p> <p>4) Substantial Completion is when the works are completed in a condition that it is capable of being occupied and used by Employer for the purpose for which it is intended. Substantial completion shall be based on 80 (eighty) per cent (value wise) or more works completed under the contract. Substantial completion should not be defined in</p>

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		<p>consideration. For contracts under which the bidder participated as a joint venture member or sub-contractor, only the bidder's share, by value, shall be considered to meet this requirement. Certificate for 'substantial completion' of project/work/asset should contain two parts. Part -I shall contain 'financial value of work done' and part-II shall contain 'certificate of functional completion of project/work/asset'.</p> <p>5) The evaluation of Bidder's Specific experience for a work executed on JV basis shall be based on his role and scope of work in such joint ventures. To establish his role and scope of work in such Joint Venture contracts, the Bidders shall provide documentary evidence such as JV Agreement/Contract of the Work to the extent of experience claimed by him. In case the quantum of work as per experience certificate does not match with the scope of work as defined in the JV/ agreement, then the experience credentials shall be considered as per the experience certificate issued by the employer /client.</p> <p>6) In case scope of work of individual partners is not clearly defined in the JV/ agreement then credential of Bidders being partner in a JV/ shall be decided in the following manner:</p>	<p>terms of percentage completion, rather it should be based on functional consideration. For contracts under which the bidder participated as a joint venture member or sub-contractor, only the bidder's share, by value, shall be considered to meet this requirement.</p> <p>Certificate for 'substantial completion' of project/work/asset should contain two parts. Part -I shall contain 'financial value of work done' and part-II shall contain 'certificate of functional completion of project/work/asset'.</p> <p>5) The evaluation of Bidder's Specific experience for a work executed on JV basis shall be based on his role and scope of work in such joint ventures. To establish his role and scope of work in such Joint Venture contracts, the Bidders shall provide documentary evidence such as JV Agreement/Contract of the Work to the extent of experience claimed by him. In case the quantum of work as per experience certificate does not match with the scope of work as defined in the JV/ agreement, then the experience credentials shall be considered as per the experience certificate issued by the employer /client.</p> <p>6) In case scope of work of individual partners is not clearly defined in the JV/ agreement then credential of Bidders being partner in a JV/ shall be decided in the following manner:</p>

NHPC LIMITED
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S. No.	Clause No.	Bid Condition	Amendment
		<p>a) Where Specific experience certificate in respect of individual JV partners is available, the same shall be considered to the extent of work executed by such JV partner.</p> <p>b) Where Specific experience certificate is not available, or experience certificate is issued in the name of JV/, the evaluation shall be done in the following manner: -</p> <p>i) In case the participation / profit sharing percentage of Bidders as per JV agreement is at least 35%, full credit of the work executed by the JV/ shall be given to such Bidders.</p> <p>ii) In case the participation / profit sharing percentage of Bidder in JV agreement is less than 35%, no credit of work executed under such JV shall be given to such Bidder.</p> <p>iii) Notwithstanding (i) and (ii) above, in case of availability of Specific experience certificate, (a) above shall apply.</p> <p>In case both participation share and profit sharing ratio are available in the JV Agreement, participation share shall prevail.</p> <p>7) For the portion of work executed through a sub-contractor, full experience for that portion of work can be claimed by the Contractor as well as sub-contractor for fulfilling criteria for</p>	<p>a) Where Specific experience certificate in respect of individual JV partners is available, the same shall be considered to the extent of work executed by such JV partner.</p> <p>b) Where Specific experience certificate is not available, or experience certificate is issued in the name of JV/, the evaluation shall be done in the following manner: -</p> <p>i) In case the participation / profit sharing percentage of Bidders as per JV agreement is at least 35%, full credit of the work executed by the JV/ shall be given to such Bidders.</p> <p>ii) In case the participation / profit sharing percentage of Bidder in JV agreement is less than 35%, no credit of work executed under such JV shall be given to such Bidder.</p> <p>iii) Notwithstanding (i) and (ii) above, in case of availability of Specific experience certificate, (a) above shall apply.</p> <p>In case both participation share and profit sharing ratio are available in the JV Agreement, participation share shall prevail.</p> <p>7) For the portion of work executed through a sub-contractor, full experience for that portion of work can be claimed by the Contractor as well as sub-</p>

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S. No.	Clause No.	Bid Condition	Amendment
		<p>evaluation of Bidder's Technical experience.</p> <p>8) If the bidder does not have specific experience of Hydro Project and qualifies on the basis of experience claimed for water resources or similar works then he shall mandatorily deploy the key personnel / experts (e.g. Hydrologist, geologist, Structural Engineer, Electrical specialist, Mechanical Specialist, Planning manager, Construction Managers etc.) having experience of executing the key components of hydro projects as per the requirement of work i.e. Dam, Power House, Tunnel etc. which shall mandatorily be deployed during contract execution till its completion. The list of Key personals / experts with requisite experience in Hydro Sector shall be provided in the tender document.</p> <p>9) Key Personal/Experts and Manpower of the bidder to be engaged may be in multiple roles (maximum 2).</p> <p>10) Evaluation of Key Personal/Experts and Manpower of the bidder to be engaged shall be done as per stated relevant experience in CV in the format provided in the bid document. More than one name can also be proposed by the bidder for similar positions. In case, any Key Personal/Experts and Manpower is not found eligible, alternate Key Personal/Expert and Manpower from the originally submitted list shall be considered for evaluation. In case of the proposed Key</p>	<p>contractor for fulfilling criteria for evaluation of Bidder's Technical experience.</p> <p>8) If the bidder does not have specific experience of Hydro Project and qualifies on the basis of experience claimed for water resources or similar works then he shall mandatorily deploy the key personnel / experts (e.g. Hydrologist, geologist, Structural Engineer, Electrical specialist, Mechanical Specialist, Planning manager, Construction Managers etc.) having experience of executing the key components of hydro projects as per the requirement of work i.e. Dam, Power House, Tunnel etc. which shall mandatorily be deployed during contract execution till its completion. The list of Key personals / experts with requisite experience in Hydro Sector shall be provided in the tender document.</p> <p>9) Key Personal/Experts and Manpower of the bidder to be engaged may be in multiple roles (maximum 2).</p> <p>10) Evaluation of Key Personal/Experts and Manpower of the bidder to be engaged shall be done as per stated relevant experience in CV in the format provided in the bid document. More than one name can also be proposed by the bidder for similar positions. In case, any Key Personal/Experts and Manpower is not found eligible, alternate Key Personal/Expert and Manpower from the originally</p>

NHPC LIMITED
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S. No.	Clause No.	Bid Condition	Amendment
		Personal/Expert and Manpower not being employed with the bidder, joint undertaking (bidder and the proposed member) for undertaking the position in case of award of work, shall be provided.	submitted list shall be considered for evaluation. In case of the proposed Key Personal/Expert and Manpower not being employed with the bidder, joint undertaking (bidder and the proposed member) for undertaking the position in case of award of work, shall be provided.
3.	Clause 4.2 (i) of NIT Financial Capacity	Turnover: The bidder should have average annual construction turnover of INR 364 Crores or equivalent US\$ 43 Million for the immediately preceding two consecutive financial years.	Turnover: The bidder should have average annual turnover of INR 309 Crores (excluding GST) or equivalent US\$ 36 Million for the immediately preceding two consecutive financial years.
4.	Clause 4.6 of NIT	<p>4.6 Joint Venture Bidders</p> <p>Joint Venture bidders shall comply with the following minimum qualifying requirements:</p> <p>(i) The number of partners in the Joint Venture not to exceed three (3) with one of the Partners designated as Lead Partner.</p> <p>(ii) The Lead Partner to fully meet the following:</p> <p>a) General Experience Criteria as mentioned at 4.1.1.</p> <p>b) Specific Construction experience Criteria mentioned at 4.1.2.1.</p> <p>c) In case the Lead Partner itself meets the specific experience criteria under 4.1.2.2 or 4.1.2.3, the number of JV partners, including the Lead Partner, shall be restricted to 2(Two).</p>	<p>4.6 Joint Venture Bidders:</p> <p>Joint Venture bidders shall comply with the following minimum qualifying requirements:</p> <p>(i) The number of partners in the Joint Venture not to exceed three (3) with one of the Partners designated as Lead Partner.</p> <p>(ii) The Lead Partner to fully meet the following:</p> <p>a) General Experience Criteria as mentioned at 4.1.1.</p> <p>b) Specific experience Criteria mentioned at <u>4.1.2.1 and/or 4.1.2.2.</u></p> <p>c) <u>The number of JV partners, including the Lead Partner, shall be restricted to 2 (Two), under following conditions:</u></p> <p>i) <u>The Lead Partner itself meets the specific</u></p>

NHPC LIMITED
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CIN: L40101HR1975GOI032564

S. No.	Clause No.	Bid Condition	Amendment
		<p>d) Average annual turnover (4.2(i)) not less than 50% of criteria specified under Financial Capacity.</p> <p>e) Working Capital Criteria (4.2(iii))</p> <p>(iii) The other partner(s) to individually meet the following requirements:</p> <p>a) In Case the Lead Partner itself meets the Specific Experience Criteria under 4.1.2.2 or 4.1.2.3, the number of JV partners, including the Lead Partner, shall be restricted to 2(Two) and the other partner has to meet the Specific Experience Criteria not met by the Lead Partner under 4.1.2.2 or 4.1.2.3.</p> <p>b) In case the Lead partner itself does not proposed to meet either of the Specific Construction Experience Criteria under 4.1.2.2 or 4.1.2.3, the number of JV partners,</p>	<p><u>experience criteria under 4.1.2.1 and either of 4.1.2.2 or 4.1.2.3.</u></p> <p>ii) <u>The Lead Partner itself meets the specific experience criteria under 4.1.2.2 and either of 4.1.2.1 or 4.1.2.3.</u></p> <p>d) <u>The number of JV partners, including the Lead Partner, shall be restricted to 3 (Three) in case the Lead Partner meets either of the specific experience criteria under 4.1.2.1 or 4.1.2.2. In this case the other partners have to meet the specific experience criteria not met by the Lead partner.</u></p> <p>e) Average annual turnover (4.2(i)) not less than 50% of criteria specified under Financial Capacity.</p> <p>f) Working Capital Criteria (4.2(iii))</p> <p>(iii) The other partner(s) to individually meet the following requirements:</p> <p>a) <u>The Specific Experience Criteria not met by the Lead Partner as deliberated under S. No. (ii) above.</u></p> <p>b) Average annual turnover (4.2(i)) not less than 20% of criteria specified under financial capacity.</p>

NHPC LIMITED
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S. No.	Clause No.	Bid Condition	Amendment
		<p>including the Lead Partner, shall be 3 (three) and the other partner(s) has to meet the Specific Experience Criteria under 4.1.2.2 and/or 4.1.2.3.</p> <p>c) Average annual turnover (4.2(i)) not less than 20% of criteria specified under financial capacity.</p> <p>(iv) All the partners of the Joint Venture to individually fulfil the Net Worth and Insolvency criteria specified under Financial Capacity.</p> <p>(v) The Joint Venture to collectively satisfy, as a whole, the specified financial as well as technical requirements.</p> <p>(vi) The Bid Capacity requirement shall be satisfied by individual partner of Joint Venture in proportion to their participation share of work in Joint Venture.</p> <p>(vii) The parties shall be required to form the Joint Venture before applying for the tender which shall be evinced by submitting a copy of the Joint Venture agreement already entered into for the purpose. The Joint Venture agreement should contain the roles and responsibilities of each constituent, the proposed participation share of each partner along with the items of work to be executed by each partner. It shall also be brought out in the Joint Venture agreement that in case the Contract is awarded to the Joint Venture, each partner of the Joint Venture shall be responsible for execution of that item of work for which he claims to have specific technical experience.</p>	<p>(iv) All the partners of the Joint Venture to individually fulfil the Net Worth and Insolvency criteria specified under Financial Capacity.</p> <p>(v) The Joint Venture to collectively satisfy, as a whole, the specified financial as well as technical requirements.</p> <p>(vi) The Bid Capacity requirement shall be satisfied by individual partner of Joint Venture in proportion to their participation share of work in Joint Venture.</p> <p>(vii) The parties shall be required to form the Joint Venture before applying for the tender which shall be evinced by submitting a copy of the Joint Venture agreement already entered into for the purpose. The Joint Venture agreement should contain the roles and responsibilities of each constituent, the proposed participation share of each partner along with the items of work to be executed by each partner. It shall also be brought out in the Joint Venture agreement that in case the Contract is awarded to the Joint Venture, each partner of the Joint Venture shall be responsible for execution of</p>

NHPC LIMITED
(A Govt. of India Enterprise)
CIN: L40101HR1975GOI032564

S. No.	Clause No.	Bid Condition	Amendment
		(viii) Lead partner of the Joint Venture should have at least 50% share.	that item of work for which he claims to have specific technical experience. (viii) Lead partner of the Joint Venture should have at least 50% share.
5.	Clause 4.7 of NIT	<p>4.7 Bidders with Sub-Contractors</p> <p>In case the Bidder does not have all requisite specific experience and also does not wish to enter into a Joint Venture or wants to restrict the joint venture partnership, he can associate sub-contractor(s) for specified activities in which he does not have the relevant experience as brought out below. The criteria to be met by such Bidder shall be as follows:</p> <p>(i) The Bidders himself to fully meet the following:</p> <p>a) General Experience Criteria as mentioned at 4.1.1</p> <p>b) Specific Construction experience Criteria mentioned at 4.1.2.1.</p> <p>c) All criteria mentioned under Financial capacity in para 4.2</p> <p>d) Bid Capacity as mentioned in Para 4.3.</p> <p>(ii) The Bidders can propose the subcontractor to meet the Specific Construction experience mentioned at 4.1.2.2 and/or 4.1.2.3 which is not met by the bidder.</p>	<p>4.7 Bidders with Sub-Contractors</p> <p>In case the Bidder does not have all requisite specific experience and also does not wish to enter into a Joint Venture or wants to restrict the joint venture partnership, he can associate sub-contractor(s) for specified activities in which he does not have the relevant experience as brought out below. The criteria to be met by such Bidder shall be as follows:</p> <p>(i) The Bidders himself to fully meet the following:</p> <p>a) General Experience Criteria as mentioned at 4.1.1</p> <p>b) Specific Construction experience Criteria mentioned at <u>4.1.2.1 and/or 4.1.2.2.</u></p> <p>c) All criteria mentioned under Financial capacity in para 4.2</p> <p>d) Bid Capacity as mentioned in Para 4.3.</p> <p>(ii) In case,</p> <p>a) <u>The bidder meets the criteria under 4.1.2.1, the bidder can propose subcontractor(s) to meet the Specific experience criteria for</u></p>

NHPC LIMITED
(A Govt. of India Enterprise)
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S. No.	Clause No.	Bid Condition	Amendment
		<p>(iii) The number of sub-contractors not to exceed two (2) for meeting the specific experience criteria. In case the bidder is itself meeting specific experience criteria under 4.1.2.2 or 4.1.2.3, the number of subcontractors in such case shall be restricted to 1 (one).</p> <p>(iv) The Bidder and his proposed sub-contractor(s) should submit separate undertaking that the Bidder/Sub- contractors shall be responsible for execution of that item of work for which they claim to have specific experience.</p> <p>(v) The Bidders and his proposed sub-contractor(s) should collectively satisfy, as a whole all the Technical Experience requirements.</p> <p>(vi) Sub-contractor(s) shall submit Performance Bank Guarantee equivalent to 5% of value of Work sublet in addition to the Performance Bank Guarantee/Insurance Surety Bond for whole contract submitted by the Bidders on award of Work.</p>	<p><u>4.1.2.2 and/or 4.1.2.3</u></p> <p><u>b) The bidder meets the criteria under 4.1.2.2, the bidder can propose subcontractor(s) to meet the Specific experience criteria for 4.1.2.1 and/or 4.1.2.3</u></p> <p>(iii) The number of sub-contractors not to exceed two (2) for meeting the specific experience criteria.</p> <p>(iv) The Bidder and his proposed sub-contractor(s) should submit separate undertaking that the Bidder/Sub- contractors shall be responsible for execution of that item of work for which they claim to have specific experience.</p> <p>(v) The Bidders and his proposed sub-contractor(s) should collectively satisfy, as a whole all the Technical Experience requirements.</p> <p>(vi) Sub-contractor(s) shall submit Performance Bank Guarantee equivalent to 5% of value of Work sublet in addition to the Performance Bank Guarantee/Insurance Surety Bond for whole contract submitted by the Bidders on award of Work.</p>

NHPC LIMITED
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S. No.	Clause No.	Bid Condition	Amendment
		(vii) All the Proposed sub-contractor(s) to individually fulfil the Insolvency criteria specified under Para 4.4.	(vii) All the Proposed sub-contractor(s) to individually fulfil the Insolvency criteria specified under Para 4.4.
6.	Application Form-3, Form-3A, Form-3B under ITB	Specific Construction Experience Record	Modified Application Form-3, Form-3A, Form-3B under ITB are attached as Annexure-I to this Corrigendum.
7.	Addition of new Sub-clause 5.11		<u>5.11 In case of experience certificates produced by the contractors for having executed works for Private Organizations, TDS Certificates shall also be produced along with experience certificate.</u>
8.	Annexure-IX (A) to PCC	Amendment to IE OM dated 27.09.2021 issued by Ministry of Power (MoP).	OM No. 15-18/1/2020-HYDEL-II (MoP) Dated 16.06.2025 issued by MoP is added to Annexure-IX (A) of PCC. The OM is attached as Annexure-II to this Corrigendum.
9.	General		Clarification to the queries raised by the bidders post Pre Bid Meeting is attached as Annexure-III to this Corrigendum.

All other terms & conditions of the tender document shall remain unchanged.

General Manager (CC-III)
Contracts Civil Division
E-mail: contcivil3-co@nhpc.nic.in
Phone: 0129-2588720

Annexure-I to Corrigendum No. 4
Application Form -3, 3A & 3B

ANNEXURE-I

APPLICATION FORM-3

PAGE ____ OF ____ PAGES

Specific Construction Experience Record

Name of Construction Company (Sole Bidder); Partner of a joint venture and/or sub-contractor(s):

On a separate page, using the format of Form-3A, each firm (Sole Bidder); Partner of a joint venture and/or sub-contractor(s) is requested to list all contracts of a similar nature undertaken and completed in past or ongoing, on the basis of which the Bidder wishes to qualify. The value should be based on the currencies of the contracts converted to INR, at the date of substantial completion. The Specific Construction Experience should include the following:

Successful experience as Sole Contractor or Partner of the JV or Sub-contractor approved by the employer for executing Major Civil Works in substantially completed project during last 20 years reckoned from the last day of the month previous to the one in which Tender is invited for the following:

4.1.2.1 Underground Power House

- a) Completion of an Underground/Sub-Surface/Surface Power House in Hydroelectric Projects.

AND

- b) Completion of at least one cavern of minimum **16 m width** and minimum **34 m height**.

4.1.2.2 Tunnel

Experience of tunneling with Drill and Blast Method (DBM)/NATM:

- a) Completion of excavation of at least one tunnel of minimum **4.0 m** diameter of the proposed tunnel with minimum length of **5.0 km** **in Ongoing/Completed Projects.**

AND

- b) Completion of concrete lined tunnel of minimum **3 km** length from one project of **3 m** finished diameter **in Ongoing/Completed Projects.** ”

Note:

- (i) *In case of tunneling works, the experience of tunneling of highway tunnel / railway tunnel/ Metro tunnel shall also be considered.*
- (ii) **Further in respect of s.no. (i) above, if tunnel(s) are constructed in multiple stretches in a single project, the cumulative length shall be considered for the purpose of qualifying criteria, however the minimum length of a single stretch of Tunnel should not be less than 0.5 Km in the same Project.**
- (iii) **In case of ongoing project, the amount /quantum of work done shall be considered for the purpose of qualifying criteria.**

4.1.3 Pressure Shaft / Surge Shaft

Completion of civil works (Excavation and Concreting) of at least one underground steel/concrete lined, vertical/inclined shaft with minimum height of **103 m**.

Note: In case of inclined shaft, the height shall be considered as perpendicular distance between the center lines of upper horizontal limb and lower horizontal limb of the shaft.

The information in Form-3A, 3B & 3C are to be summarized in the table form as shown below.

Summary - Completed Contracts of Similar Nature and Complexity

Name of Project (reported on Form - 3A, 3B & 3C)	Country	Name of Contract	Address of the Employer/Client along with E-Mail ID	Contractor's Role (Prime contractor# or lead partner in JV)	Contract value in million US\$* Equivalent	Year of schedule completion/ actual completion
1.						
2.						
3.						
4.						

* @ For such works with payment received in other than INR shall be converted in INR by adopting the Exchange rate between that Currency and INR as prevailing on the completion date mentioned in the completion certificate and if month of completion is mentioned in the Completion Certificate, then the exchange rate of last working day of the Month shall be taken. The value of work in INR or converted into INR as above from the currency other than INR shall be enhanced by 7% simple rate per annum up to the date of Bid Opening.

The Prime contractor means the sole contractor for Qualification purpose.

Date:.....2025

Signature:

Note: To please attach detailed data sheets, outstanding developments/ significant achievements of the Company wherever possible.

SUMMARY OF FULFILMENT OF TECHNICAL CRITERIA

(To be submitted by the Bidder)

S. No.	Qualifying Criteria	Reference (Page No.)
4.1.1	<p>General Construction Experience</p> <p>The Bidder (Sole Contractor or Lead Partner of JV) should have the General Construction Experience as Prime Contractor or Partner of JV or Sub-contractor approved by Employer, of substantially completed a major Civil Structure in a Water Resources/ Hydro Power Development Project or other Civil/Infrastructure Works during last twelve (12) years of following value:</p> <ol style="list-style-type: none"> 1. One similar work costing not less than INR 855 Crore or 100 Million USD. 2. Two similar works each costing not less than INR 535 Crore or 60 Million USD. 3. Three similar works each costing not less than INR 430 Crore or 50 Million USD. <p>Similar Works / Major Civil Structure shall mean Dam/ Barrage, Tunnel, Power House, surge Shaft/Pressure Shaft.</p> <p>In case of tunnelling works the experience of tunnelling of Highway Tunnel/ Railway Tunnel/Metro Tunnel shall also be considered.</p> <p>The reference date for considering the period of preceding twelve (12) years for general construction experience shall be last day of the month previous to the one in which Bid is invited.</p> <p>For such works with payment received in other than INR shall be converted in INR by adopting the Exchange rate between that Currency and INR as prevailing on the completion date mentioned in the completion certificate and if month of completion is mentioned in the Completion Certificate, then the exchange rate of last working day of the Month shall be taken. The value of work in INR or converted into INR as above from the currency other than INR shall be enhanced by 7% simple rate per annum up to the date of Bid Opening.</p>	
4.1.2.1	<p>Specific Construction Experience for Power House</p> <p>Successful experience as Sole Contractor or Partner of the JV or Sub-contractor approved by the employer for executing Major Civil Works in substantially completed project during last 20 years reckoned from the last day of the month previous to the one in which Tender is invited) for the following:</p> <ol style="list-style-type: none"> a) Completion of an Underground / Sub-Surface / Surface 	

	<p>Power House in Hydroelectric Projects. AND b) Completion of at least one cavern of minimum 16 m width and minimum 34 m height.</p>	
4.1.2.2	<p>Specific Construction Experience for Tunnel <i>Experience of tunneling with Drill and Blast Method (DBM)/NATM:</i></p> <p>a) Completion of excavation of at least one tunnel of minimum 4.0 m diameter of the proposed tunnel with minimum length of 5.0 km <u>in Ongoing/Completed Projects.</u> AND b) Completion of concrete lined tunnel of minimum 3 km length from one project of 3 m finished diameter <u>in Ongoing/Completed Projects.</u>”</p> <p><i>Note:</i> (i) In case of tunneling works, the experience of tunneling of highway tunnel / railway tunnel/ Metro tunnel shall also be considered. (ii) <u>Further in respect of S.No. (i) above, if tunnel(s) are constructed in multiple stretches in a single project, the cumulative length shall be considered for the purpose of qualifying criteria, however the minimum length of a single stretch of Tunnel should not be less than 0.5 Km in the same Project.</u> (iii) <u>In case of ongoing project, the amount /quantum of work done shall be considered for the purpose of qualifying criteria.</u></p>	
4.1.2.3	<p>Specific Construction Experience for Pressure Shaft / Surge Shaft</p> <p>Completion of civil works (Excavation and Concreting) of at least one underground steel/concrete lined, vertical/inclined shaft with minimum height of 103 m.</p> <p><i>Note: In case of inclined shaft, the height shall be considered as perpendicular distance between the center lines of upper horizontal limb and lower horizontal limb of the shaft.</i></p>	

Note:

The reference date for considering the period of preceding Twelve (12) /twenty (20) years for General / specific construction experience shall be 30.04.2025.

APPLICATION FORM - 3A

PAGE ____ OF ____ PAGES

Details of Completed and current Contracts of Similar Nature

Name of Construction Company (Sole Bidder); Partner of a joint venture and/or sub-contractor(s):

Use a separate sheet for each contract.

List all relevant works completed in past, for which the Bidder wishes to qualify.

1	Name of Project		
	Country	State/Province	
2.	Name of Employer	Address along with e-Mail ID	
3.	Name of contract:		
4.	Nature of works (Underground Power House/ Sub-Surface / Surface Power House in Hydroelectric Projects) relevant to the contract for which the Bidder wishes to prequalify:		
5.	Contract role (check one) <input type="checkbox"/> Lead Partner in a joint venture <input type="checkbox"/> Prime contractor <input type="checkbox"/> Manufacturer <input type="checkbox"/> Partner in a joint venture		
6.	Contract value: Currency:	Equivalent US\$	Of which, Bidder's share was: %
7.	Time period as per the Contract Document (years and months)		Date of award: Date of Completion:

8. Involvement of Sub-Contractor for substantial work execution, if any. (*mention the details*)

9. Works done (*Bidder is to add or delete items to demonstrate qualification*):

i) Underground Power House

a) Completion of an Underground / Sub-Surface / Surface Power House in Hydroelectric Projects.

AND

b) Completion of at least one cavern of minimum.....**Width** and minimum.....**Height**.

Date _____

Signature _____

NB: To please attach detailed data sheet wherever possible

APPLICATION FORM – 3B

PAGE ____ OF ____ PAGES

Details of Completed and current Contracts of Similar Nature

Name of Construction Company (Sole Bidder); Partner of a joint venture and/or sub-contractor(s):

Use a separate sheet for each contract.

List all relevant works completed in past, for which the Bidder wishes to qualify.

1	Name of Project		
	Country	State/Province	
2.	Name of Employer	Address along with e-Mail ID	
3.	Name of contract:		
4.	Nature of works (Tunnels) relevant to the contract for which the Bidder wishes to prequalify:		
5.	Contract role (check one) <input type="checkbox"/> Lead Partner in a joint venture <input type="checkbox"/> Prime contractor <input type="checkbox"/> Manufacturer <input type="checkbox"/> Partner in a joint venture		
6.	Contract value:	Equivalent US\$	Of which, Bidder's share was:
	Currency:		%
7.	Time period as per the Contract Document (years and months)		Date of award: Date of Completion:

8. Involvement of Sub-Contractor for substantial work execution, if any. (*Mention the details*)

9. Works done (*Bidder is to add or delete items to demonstrate qualification*):

i) Tunnels (with DBM/NATM method)

a) Completion of excavation of at least one tunnel of minimum -----m excavated diameter with minimum length of ----- km in **Ongoing /Completed Projects.**

AND

b) Completion of concrete lined tunnels of minimum -----Km length **from one Project** of -----m finished diameter **in Ongoing /Completed Projects.**

Note:

- (i) *In case of tunneling works, the experience of tunneling of highway tunnel / railway tunnel/ Metro tunnel shall also be considered.*
- (ii) **Further in respect of S.No. (i) above, if tunnel(s) are constructed in multiple stretches in a single project, the cumulative length shall be considered for the purpose of qualifying criteria, however the minimum length of a single stretch of Tunnel should not be less than 0.5 Km in the same Project.**
- (iii) **In case of ongoing project, the amount /quantum of work done shall be considered for the purpose of qualifying criteria.**

Date _____

Signature _____

NB : To please attach detailed data sheet wherever possible.

Annexure-II to Corrigendum No.4

OM No. 15-18/1/2020-HYDEL-II (MoP) Dated 16.06.2025 issued by MoP

No. 15-18/1/2020-HYDEL-II (MoP)
Government of India
Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, Dated 16th June, 2025

OFFICE MEMORANDUM

Subject: Model Contract Provision for "Dispute Avoidance Mechanism" through 'Independent Engineer' (IE) in the Construction Contracts of CPSEs executing Hydro Power Projects - Amendments reg

Ministry of Power vide OM of Even No. dated 27.09.2021 had introduced the Model Contract Provision for "Dispute Avoidance Mechanism" through "Independent Engineer" (IE) in the Construction Contracts of CPSEs executing Hydro Power Projects to address and resolve disputes between Hydro CPSEs and contractors at the inception stage of the project, thereby preventing escalation and ensuring smooth progress of the projects.

2. After consultations with CEA and CPSEs, following amendments are made in OM of even No. dated 27.09.2021:

A) Para No 6 (a) and (b) regarding 'Terms and Conditions for Payments to Independent Engineer' may be read as under :

6 (a): Retainership Fee : A retainer fee of Rs.100,000 per month has been fixed for FY 2025-26 for 'Independent Engineer' and shall be considered as payment in full for :

- i. being available on a notice of 2 weeks for all site visits and hearings;
- ii. becoming and remaining conversant with all the project developments and maintaining relevant files;
- iii. compensating all office and overhead expenses including secretarial services, photocopying and office supplies incurred in connection with his duties; and

The retainer fee of Experts, shall be increased annually by 10%. IE shall be eligible for maximum two retainer ship fee i.e he can be engaged in maximum two CPSEs (CPSE shall include its JV/subsidiaries also). Further, IE can be engaged in maximum 02 contracts /packages in each CPSE .

Retainership shall be for such duration as may be mutually decided by the owner and Contractor but shall not , in any case , extend beyond 3 months after the completion of works as per the contract . The retainership fee shall be shared by the CPSE and the Contractor (s) equally but shall initially be paid to the IE by the concerned CPSE.

6.(b): Site visit fee : The FY 21-22 may be read as FY 2025-26.

B). The following new Para-8 is added

"The existing panel of 19 IEs as per the OM dated November 29, 2021, will be withdrawn once the new panel is finalized. However, IEs already engaged by the CPSEs would continue as per Terms & Conditions given in OM of even no dated 29.11.2021 of MoP. CPSE would engage subsequent IE from the fresh empanelment list only"

C). Para 8 may be read as Para 9.

D). Para-2 is added in Annexure-1 of OM of even no. dated 27.09.2021 regarding eligibility criteria for appointment of expert of independent engineer hydro Power contracts as under :

" 2- Maximum age limit shall be 65 years to apply and 70 years to work as 'Independent Engineer' (IE)"

This issues with the approval of the Hon'ble Minister of Power


16/06/25
(Santosh Kumar)

Director

hydro2-mop@gov.in

To

1. The Chairperson Central Electricity Authority, New Delhi.
2. All Members Central Electricity Authority, New Delhi
3. CMDs - NHPC Ltd, SIVN Ltd, THDC (I) Ltd, NEEPCO Ltd and NTPC Ltd.
4. Chairman BBMB.

Copy to:

1. PS to HMoP
2. PS to HMoS for Power
3. Sr. PPS to Secretary (Power) / Sr. PPS to AS(Hydro)/PPS to AS (R&R/Trans) , PPS to JS(Hydro)
4. All Joint Secretaries / equivalent level Officers of Ministry of Power
5. All Directors / Deputy Secretaries of Ministry of Power

Copy also to:

In-charge. NIC Cell, MoP with request to publish the OM on the website of Ministry of Power.


16/06/25
(Santosh Kumar)

Director

hydro2-mop@gov.in

Annexure-III to Corrigendum No. 4
Clarifications to Queries received after Pre-Bid Meeting

Clarifications to Queries received after Pre-Bid Meeting																																	
Name of Work: Lot-I Package - Civil Works Package for 240 MW Uri-I Stage-II H.E Project, located near Boniyar, UT of Jammu and Kashmir																																	
Tender Id: 2025_NHPC_859472_1																																	
S.No.	Volume	Clause No.	Description	Request for Change & Clarification	Reply																												
Volume-1 IFB & Construction Schedule																																	
	Volume-1	Volume 1; Section 1; Construction Scheule; Page 76 of 81	<table><tr><th>S.No</th><th>Milestones</th><th>Completion Month from Letter of Award</th></tr><tr><td>1</td><td>Completion of HRT Excavation</td><td>29th Month</td></tr><tr><td>2</td><td>Completion of HRT Concreting</td><td>40th Month</td></tr><tr><td>3</td><td>Completion of Power House Excavation</td><td>18th Month</td></tr><tr><td>4</td><td>Availability of EOT crane for Machine Erection</td><td>22nd Month</td></tr><tr><td>5</td><td>Competition of TRT work</td><td>29th month</td></tr><tr><td>6</td><td>Filling of water conductor system</td><td>42nd Month</td></tr><tr><td>7</td><td>Unit #1 Commissioning</td><td>44th Month</td></tr><tr><td>8</td><td>Unit # 2 Commissioning</td><td>44th Month</td></tr></table>	S.No	Milestones	Completion Month from Letter of Award	1	Completion of HRT Excavation	29 th Month	2	Completion of HRT Concreting	40 th Month	3	Completion of Power House Excavation	18 th Month	4	Availability of EOT crane for Machine Erection	22 nd Month	5	Competition of TRT work	29 th month	6	Filling of water conductor system	42 nd Month	7	Unit #1 Commissioning	44 th Month	8	Unit # 2 Commissioning	44 th Month	There are two sets of milestones mentioned in the tender documents. We understand that the set of milestones mentioned in the Annexures of the Appendix of tender (Vol 2 Sec 2) will supersede over the one mentioned along with the Construction Schedule (Vol 1 Sec 1); Request to confirm our understanding.	The milestones mentioned in Volume-1, Section-1 are intermediate and interdependent in nature.However, the milestones specified in Volume-2, Section-2 are considered contractual milestones. In case of any discrepancy between the two, the provisions of Section-2 of Volume-2 shall prevailover those of Section-1 of Volume-1	
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7	Unit #1 Commissioning	44 th Month																															
8	Unit # 2 Commissioning	44 th Month																															
	Volume-1	Section 1: Clause 6.0 Access Roads to various Work Sites	<table><tr><th>S.NO</th><th>Dumping Areas</th><th>Quantity as per present site assessment (lakhcum.)</th><th>Distance of dumping site from existing Adits.</th></tr><tr><td>1</td><td>Hiller Peernia</td><td>0.75</td><td>2.10 km d/s from Adit 1.</td></tr><tr><td>2</td><td>Lari</td><td>1.50</td><td>3.50 km d/s from Adit 1</td></tr><tr><td>3</td><td>Uranbua</td><td>1.50</td><td>4.80 km d/s from Adit 2</td></tr><tr><td>4</td><td>Mohura</td><td>3.6</td><td>1 km from MAT Powerhouse 1.40 km from Adit 4. 2.70 km d/s from Adit 3</td></tr><tr><td>5</td><td>Parn pillan</td><td>10.00</td><td>2 km dis from Adit 6. 8.0 km d/s from Adit 4. 9.50 km d/s from MAT Powerhouse</td></tr><tr><td colspan="2">Total</td><td>17.35</td><td></td></tr></table>	S.NO	Dumping Areas	Quantity as per present site assessment (lakhcum.)	Distance of dumping site from existing Adits.	1	Hiller Peernia	0.75	2.10 km d/s from Adit 1.	2	Lari	1.50	3.50 km d/s from Adit 1	3	Uranbua	1.50	4.80 km d/s from Adit 2	4	Mohura	3.6	1 km from MAT Powerhouse 1.40 km from Adit 4. 2.70 km d/s from Adit 3	5	Parn pillan	10.00	2 km dis from Adit 6. 8.0 km d/s from Adit 4. 9.50 km d/s from MAT Powerhouse	Total		17.35		Bidder request to provide the area/dimensions of dumping areas. Since the dumping area capacity is indicated in lakh cum at each locations. As per the topographical details, the disposal area in Paran Pillan is appears to be with deep contour profile (capacity to accommodate large volume of muck) whereas at other locations (D1-D4) the topographical area is in plain profile. Hence, we request to provide the disposal area tentative boundary dimensions to plan the muck disposal system effectively.	The dimensions of the dumping sites are attached as Appendix-I.
S.NO	Dumping Areas	Quantity as per present site assessment (lakhcum.)	Distance of dumping site from existing Adits.																														
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Total		17.35																															
	Volume-1	Section 1: Clause 12.0 Any other relevant information.	Any other relevant information: The project has the availability of a residential colony in the project area at a distance of about 1 km from Adit 3. The Contractor can use the accommodation in the Colony after undertaking necessaryrenovation. The contractor will bear all charges including water, electricity etc. during the period of their use of the Colony permises	We understand during the site visit that the residential colony near Adit 3A and near Uranbua dumping location shall be handed over to contractor for its accommodation during construction period. In this regard the particular details - number of quarters, total builtup area, present condition etc. is required to keep the necessary provision in our estimate for d the renovation work and to ensure accommodating requisite number of officers during construction period.	The layout of the Mohra Colony is attached as Appendix-I																												
	Volume-1	Section 1: Clause 18.0 Construction Material	Construction Material Detailed investigations have been carried out for prospecting and testing of materials for use as concrete aggregate..... An index plan showing locations of each borrow area along with the river stream, existing road, villages/permanent references point and main structures of the project is appended as Plate 8..... 18.1.1. Shoal deposits 18.1.1.1 Sheeri village shoal deposits 18.1.1.2 Salamabad Nalla shoal deposit 18.1.1.3 Mohra P/H Terrace deposit 18.1.2.Rock Quarries 18.1.2.1 Naushera Rock Quarry 18.1.2.2 Hajipeer Rock Quarry..... on the basis of these result it is observed that aggregate material is classified as innocuous.	Bidder presume that the quarry locations identified by client are accessible from existing road network and no additional roads are envisaged during construction stage. Bidder request to furnish the layout plan for rock quarries	All the mentioned Construction Material deposit locations are well connected with roads. The plan along with the google imagery is attached as Appendix-I.																												

S.No.	Volume	Clause No.	Description	Request for Change & Clarification	Reply																																	
Volume-2 (PCC)																																						
	Volume-2	Volume 2; Section 2; Milestones; Page 74-76 of 219	<p><u>Contract/Progress Milestones</u></p> <table><tr><th>S. No.</th><th>Milestones</th><th>Completion Month from LOA</th></tr><tr><td>1</td><td>Completion of HRT Concreting</td><td>40th month</td></tr><tr><td>2</td><td>Completion of Power House Excavation</td><td>18th month</td></tr><tr><td>3</td><td>Unit # 2 Commissioning</td><td>44th month</td></tr></table> <p><u>Interdependent Milestones with HM Works:</u></p> <table><tr><th>S. No.</th><th>Description of Activities</th><th>Completion month from LOA</th></tr><tr><td>1</td><td>Completion of Lining of Surge Shaft and handing over to HM contractor for Surge Shaft Gate Erection.</td><td>23</td></tr><tr><td>2</td><td>Concreting of Downstream Draft Tube Gate Cavern and handing over to HM Contractor for Draft Tube Gate Erection.</td><td>25</td></tr><tr><td>3</td><td>Handing over of TRT Outfall Structure to HM contractor for Erection of TRT Gates</td><td>28</td></tr></table> <p><u>Interdependent Milestones with E&M Works:</u></p> <table><tr><th>S. No.</th><th>Description of Activities</th><th>Completion month from LOA</th></tr><tr><td>1</td><td>Handing over of EOT crane beam in Service Bay for EOT erection by E&M contractor.</td><td>20</td></tr><tr><td>2</td><td>Availability of water for machine testing and commissioning by E&M contractor</td><td>42</td></tr></table>	S. No.	Milestones	Completion Month from LOA	1	Completion of HRT Concreting	40 th month	2	Completion of Power House Excavation	18 th month	3	Unit # 2 Commissioning	44 th month	S. No.	Description of Activities	Completion month from LOA	1	Completion of Lining of Surge Shaft and handing over to HM contractor for Surge Shaft Gate Erection.	23	2	Concreting of Downstream Draft Tube Gate Cavern and handing over to HM Contractor for Draft Tube Gate Erection.	25	3	Handing over of TRT Outfall Structure to HM contractor for Erection of TRT Gates	28	S. No.	Description of Activities	Completion month from LOA	1	Handing over of EOT crane beam in Service Bay for EOT erection by E&M contractor.	20	2	Availability of water for machine testing and commissioning by E&M contractor	42	There are two sets of milestones mentioned in the tender documents. We understand that the set of milestones mentioned in the Annexures of the Appendix of tender (Vol 2 Sec 2) will supersede over the one mentioned along with the Construction Schedule (Vol 1 Sec 1); Request to confirm our understanding.	The milestones mentioned in Volume-1, Section-1 are intermediate and interdependent in nature.However, the milestones specified in Volume-2, Section-2 are considered contractual milestones. In case of any discrepancy between the two, the provisions of Section-2 of Volume-2 shall prevailover those of Section-1 of Volume-1
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	Volume-2	Volume 2; Section-3 Clause No.4.25 Land	Land Land for Infrastructure shall be arranged by the Contractor himself at his own cost. The Employer shall hand over land for Permanent Works, dumping area and quarries, free of cost to the Contractor on "as is where is" basis.	We understand during site visit that the land /open space is available at Adit 1A, 3A and 6A portal. In this regard, we further request to provide the tentative layout plan showing land acquired by Client to plan the initial set-up facilities.	Google images of the mentioned areas indicating approx areas near Adit 1A, 3A, and 6A are attached as Appendix-I																																	
Volume-3 (BOQ)																																						
	Volume-3	BOQ Sr. No. 182	Ground B - Underground works Polyurethane resins - 1000 MT	1000MT for Polyurethane resins is a large quantity and also, very expensive. Request to check and confirm the 'Quantity' and/or 'Unit'.	As informed in IFB , URI-I Stage-II H.E. Project is the extension of existing URI-I H.E. Project in which water conductor system of URI-I Stage-II H.E. Project is parallel to existing water conductor of URI-I H.E. Project (Refer Project Layout Plan drawing no. NHUR-I(II)-1AT1-41-GA-002). The quantity of Polyurethane resins has been estimated considering the anticipation of excess seepage during excavation of water conductor system of URI-I Stage-II H.E. Project in water charged conditions due to operation of existing water conductor system of Uri-I H.E. Project . Further it is to inform that the quantum of Polyurethane resins shall be utilized in phase manner as per requirement at site and shall be dealt as per condition of contract.																																	
Volume-4, Technical Specifications for Civil Works, Model QAP and Safety Manual																																						
	Volume-4	Volume4/Section B-13/ Metal works;	Steel Liner Thickness	Kindly provide the thickness of steel liner for pressure shaft and penstock for our internal assessment.	Pressure shaft & penstock steel liner is not part of LOT-1. However the thickness of Pressure shaft steel liner varies from 18mm to 42mm.																																	
	Volume-4	Clause 20.1.2 (2), Page 4 of 15, Section B.20 of Part B of Section- 6 of Vol.-4	Internal lighting equipment and fittings will be provided for the following buildings and underground areas: a) Extended Main Access Tunnel (MAT) to Powerhouse, Adit to PS top and Erection chamber, all other access adits / tunnels, Draft tube gates area, Surge shaft, GOC of TRTs, etc.	As per the relevant clause, provision of internal lighting for specifically for Civil components only. However, the provision for the lighting of the Machine & Control room area of Powerhouse and Dam Control Room has not been mentioned so accordingly we have considered for specific requirement only. Please confirm.	Illumination of Power House area is not in scope of this contract. Dam control room is not in scope of this contract. TS clause 20.1.2 is for specific requirement.																																	
	Volume-4	Volume-4, Section-6, Technical Specification Part-B, SectionB.9, Clause21.9.5.2	RCC Mixing & Batching Plant Installation	It is requested to clarify whether the complete setup of mixing & batching equipment needs to be installed for full scale test trail or partial installation to cater requirement is also acceptable.	In the Technical specification it is specified “Batching and mixing of the concrete shall be done in batching and mixing plant located at a suitable place and distance, duly approved by Engineer-inCharge considering the properties of the mix and the transporting arrangements available with the Contractor.” The bidder may carry out site visit for assessment the actual site conditions.																																	

S.No.	Volume	Clause No.	Description	Request for Change & Clarification	Reply
Volume-5 (Tender Drawings)					
	Volume-5	Volume 5: Tender Drawings Drg. No. NHUR-I(II) 3KT1 41 GA 028 00; Page 33 of 91	Tender Drawings Drg.No. NHUR-I(II)3KT1 41 GA 028 00	Kindly provide Bend radius and Back fill concrete details at bend are not provided.	Bend radius is as per drawing attached as Appendix-II. Backfill concrete in pressure shaft is 800mm.
	Volume-5	Volume 5 Tender Drawings Drg. No. NHUR-I(II) 3KT1 41 GA 030 00; Page 35 of 91	Tender Drawings Drg.No. NHUR-I(II)3KT1 41 GA 030 00	Kindly provide Bifurcation angle and arc length.	Bifurcation angle ° and arc length is as per drawing attached as Appendix-II.
	Volume-5	Volume 5 Tender Drawings Drg. No. NHUR-I(II) 4CT1 41 GA 063 00; Page 68 of 91	Tender Drawings Drg.No. NHUR-I(II) 4CT1 41 GA 063 00	Kindly provide the angle at junction of TRT-1.	Angle at junction of TRT is as per drawing attached as Appendix-II.
	Volume-5	NHUR-I(II)-3BT1-41-GA-007	HEAD RACE TUNNEL CONSTRUCTION ADIT 1A PLAN & LONGITUDINAL SECTION	As per the plan of Adit 1A, it crosses the existing HRT. Kindly provide the cross section showing lateral & vertical cover available between existing HRT and Adit 1A in order to finalize the method of excavation of Adit 1A	The existing HRT of Uri-I Power station is at El 1461.62m approx , adit 1A above the existing HRT is at EL 1492.45m approx and NSL above it is at EL 1575m approx. The updated drawing no. NHUR-I(II)-1AT1-41-GA-007-00 showing the existing HRT of Uri-I Power Station is attached as Annexure-I
	Volume-5	NHUR-I(II)-4BT1-41-GA-060	POWER HOUSE AREA- GENERAL ARRANGEMENT CONSTRUCTION ADIT PLAN As per the plan, the portal location of existing cable and ventilation tunnel is alongside Adit 4A at EL 1320m constructed during URI Stage 1. Both these adits are alongside National Highway 1.	We understand during site visit that the URI Stage I HEP cable and ventilation tunnel near Adit 4 is occupied with permanent ventilation system/ set-up & supplies air to Power house area. As per the layout plan, the proposed cable and ventilation tunnel construction is planned by using access from existing cable and ventilation tunnel portal. In this regard, bidder presume that necessary access shall be provided to construct the proposed cable and ventilation tunnel.	Proposed cable and ventillation tunnel is to planned to be excavated from Transformer cavern. The CVT of Uri-I Stage-II is inclined at angle of approx 38.64 degree and connected to existing CVT of Uri-I Power Station . There is also two shaft of 3.m dia to be constructed. Hence necessary access for construction of CVT shall be through transformer cavern of URI-I STAGE-II project and last stretch shall be connected with existing CVT of URI-I Stage-I Power station by controlled blasting. Please refer drawing no. NHUR-I(II)-1AT1-41-GA-063-00 & NHUR-I(II)-1AT1-41-GA-064-00 Cable Ventilation Tunnel Plan & Section.
Volume-6 (Data Sheets)					
	Volume-6	Volume-6; Section-8: Data Sheets; DATA SHEET – 4A; Page 15 of 30	DATA SHEET – 4A; PROPOSED SPECIALIZED AGENCIES Section of Work: Underground Excavation in the Power House area by Mechanized means such as Hydraulic Rock Splitter and rock Breaker or any other mechanical means.	Kindly note that rock excavation using mechanized means such as Rock Breakers, Roadheaders, Drum Cutters, etc., is a standard construction activity typically undertaken directly by the main civil contractor. It does not generally involve any specialized subcontractor, as the required equipment and execution capabilities are commonly available with experienced civil contractors. In view of this, it may not be feasible to identify agencies exclusively engaged in mechanical excavation of Underground Power Houses. We, therefore, request you to kindly remove the condition mandating engagement of a specialized agency for this scope.	The work of Underground power House is to be executed considering the safety of the existing nearby structures of URI–I Hydroelectric Project. In this regard maximum particle velocity has been restricted as defined in Technical specification. In this regard the bidder may please refer the Technical specification clause no.3.1, 3.8.7, 3.9.3. For specialized agencies Bidders may submit either a specialized agency or their own work experience / credentials in support of the claim. They can submit their own construction methodology for this purpose.
General					
		General	Geology	Request client to provide geological details of existing HRT.	Geological appraisal and geological section of HRT provided in tender documents is based on present geological investigations and projections from geology encountered in Uri-I Stage-I. As such geological appraisal of existing HRT (Stage-I) is more or less similar to that of proposed (present) HRT. Nevertheless, strip logs of existing HRT are provided in DPR, and the bidder can see the logs for more clarity.

Appendix-I to Clarifications to Queries received after Pre-Bid Meeting

Appendix-I

Sr. No.	SITE	Area (m ²)	Vol ^m (m ³)	Distance from ADITS (km)
1	VRANBUA	6187.78 m ²	63342.8 m ³	3.8 km from ADIT 2:
2.	POWER HOUSE/Mohura	7586 m ²	120594 m ³	1.5 km from ADIT '4'
3.	HILLER PERNIA	2739.77 m ²	54795.4 m ³	2.1 km from ADIT '1'
4.	LARI	7213.37 m ²	128043.76 m ³	3.6 km from ADIT '1'
5.	PARAMPILLA	8177 m ²	327080 m ³	8 km from ADIT 4
<div data-bbox="183 1982 885 2049">Total Area ⇒ 31903.92 m²</div> <div data-bbox="167 2027 885 2116">Total Vol^m ⇒ 693855.96 m³</div>				

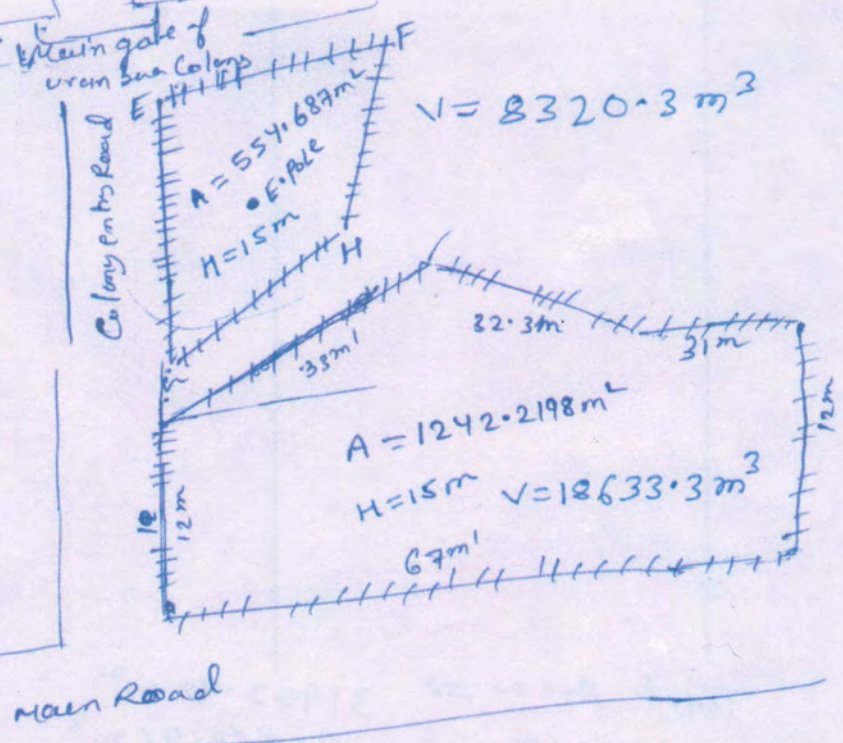
URANBUA DUMPING SITE

Distance from ADIT 2 to main gate
 $\Rightarrow 3.8 \text{ km}$

Distance from ADIT 2 to BACKYARD
 $\Rightarrow 4.4 \text{ km}$

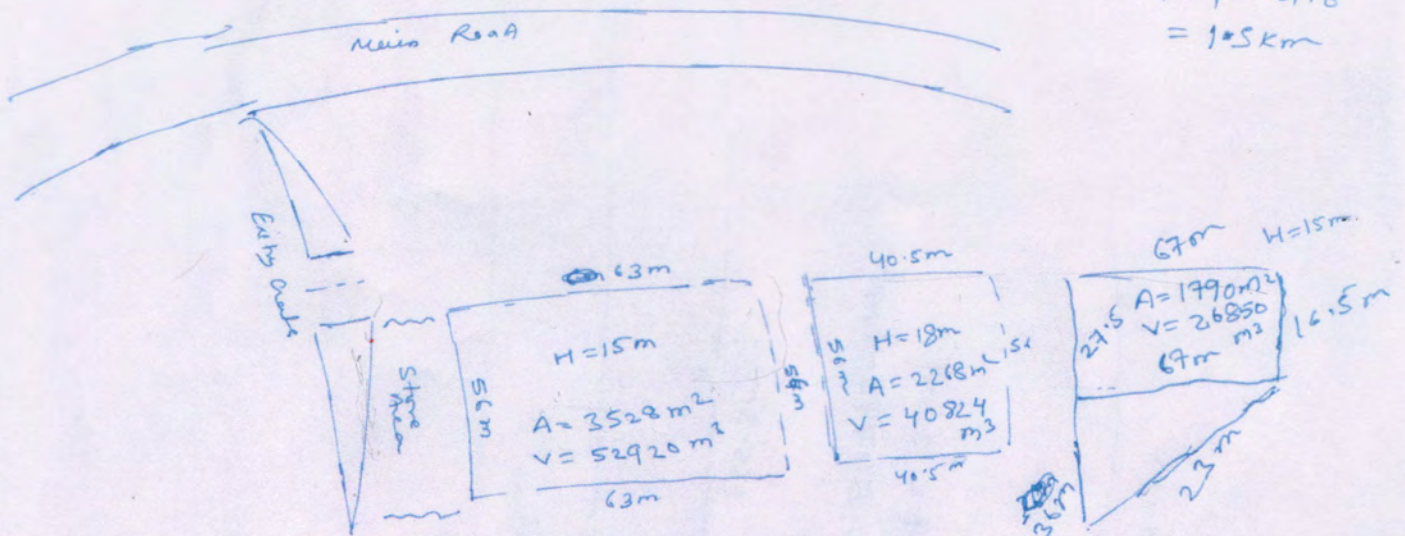


$$\begin{aligned} \text{Area} &= 2222.74 + 883.82 + 1284.3 \\ &+ 554.687 + 1242.22 \\ &\Rightarrow 6187.78 \text{ m}^2 \\ V &= 33341.1 + 8838.2 \\ &+ 12843.2 + 8320.3 \\ &+ 18633.3 \\ &\Rightarrow 63342.8 \text{ m}^3 \end{aligned}$$



POWER HOUSE / Mohura

DISTANCE FROM ADITYA to
PUMPING SITE
= 1.5 km



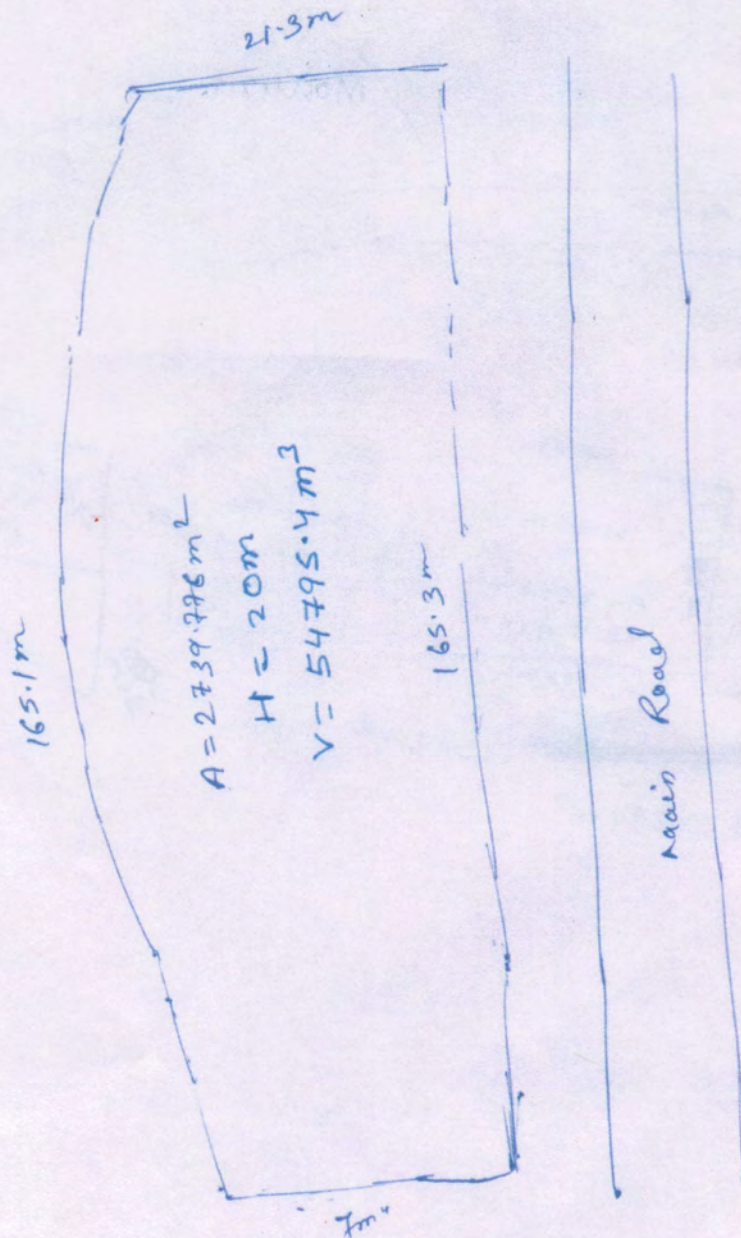
$$A \Rightarrow \cancel{32646} 7586 \text{ m}^2$$

$$V \Rightarrow 120594 \text{ m}^3$$

HILLER PERUA DUMPING SITE

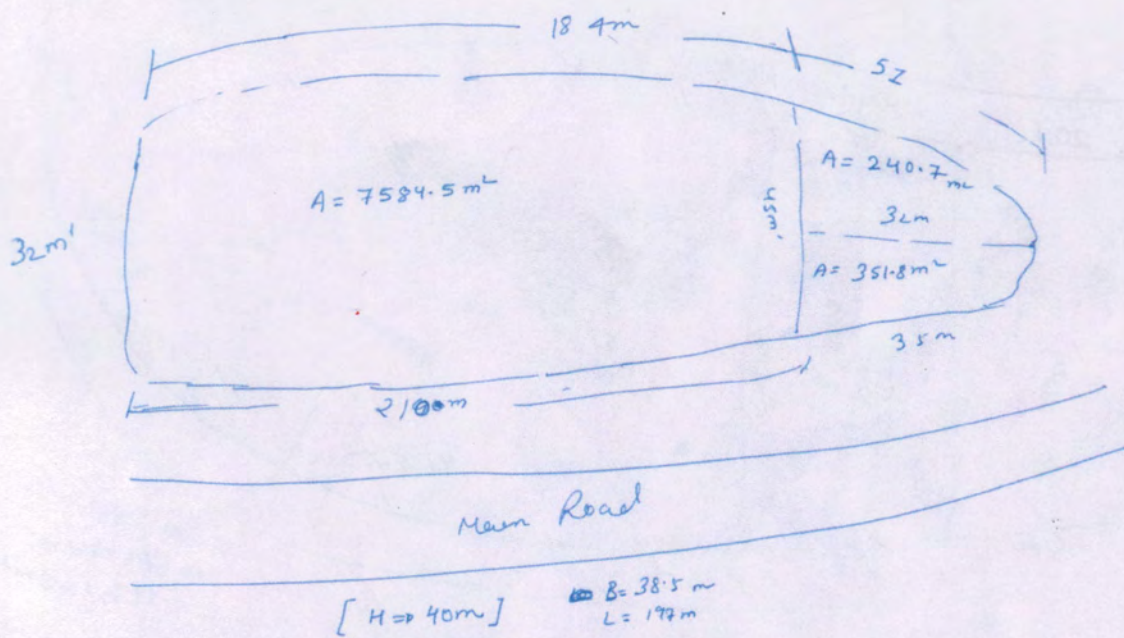
Distance from ADIT 2 to Hillerperua

$\Rightarrow 2.1 \text{ km}$



PARAMPILLA SITE

DISTANCE FROM ADITYA TO PARAMPILLA
 $\Rightarrow 8\text{km}$

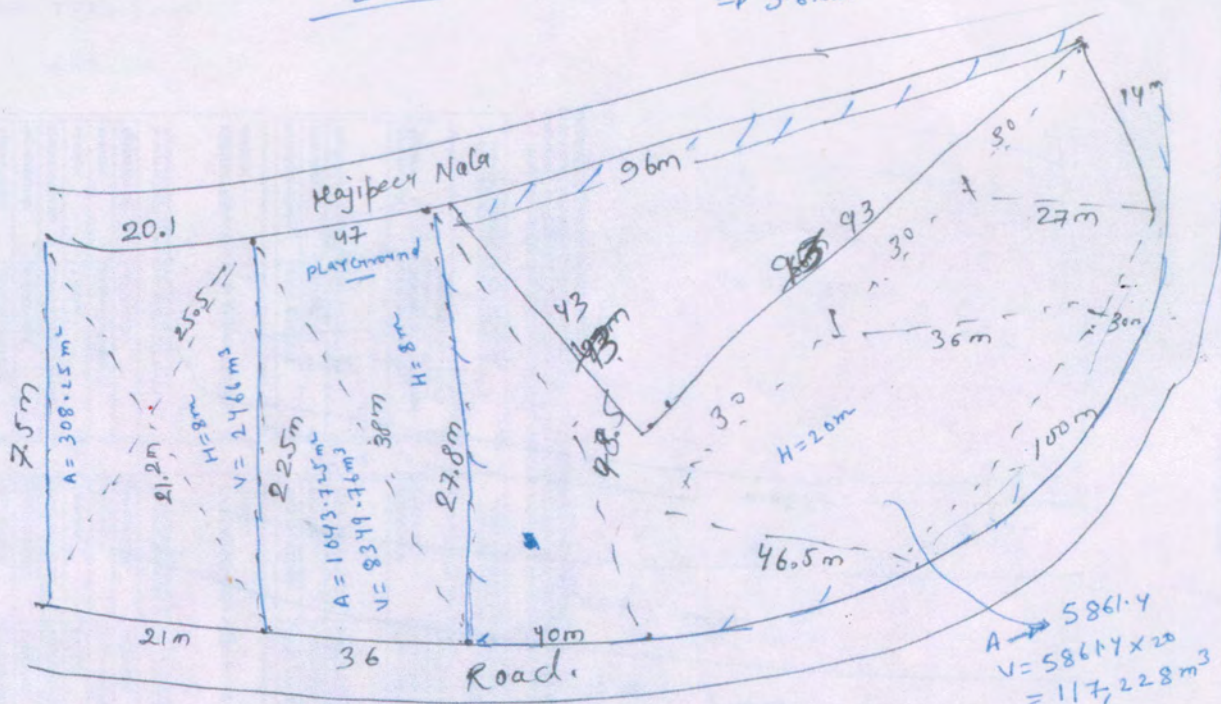


$$\text{Total area} = 8177\text{ m}^2$$

$$\text{Vol/m} \Rightarrow 8177 \times 40 = 327080\text{ m}^3 \text{ (Taken 40m elevation)}$$

LARI

DISTANCE from ADITI to LARI
 $\Rightarrow 3.6 \text{ km}$



Total Area = ~~68.35~~ 7213.375 m^2

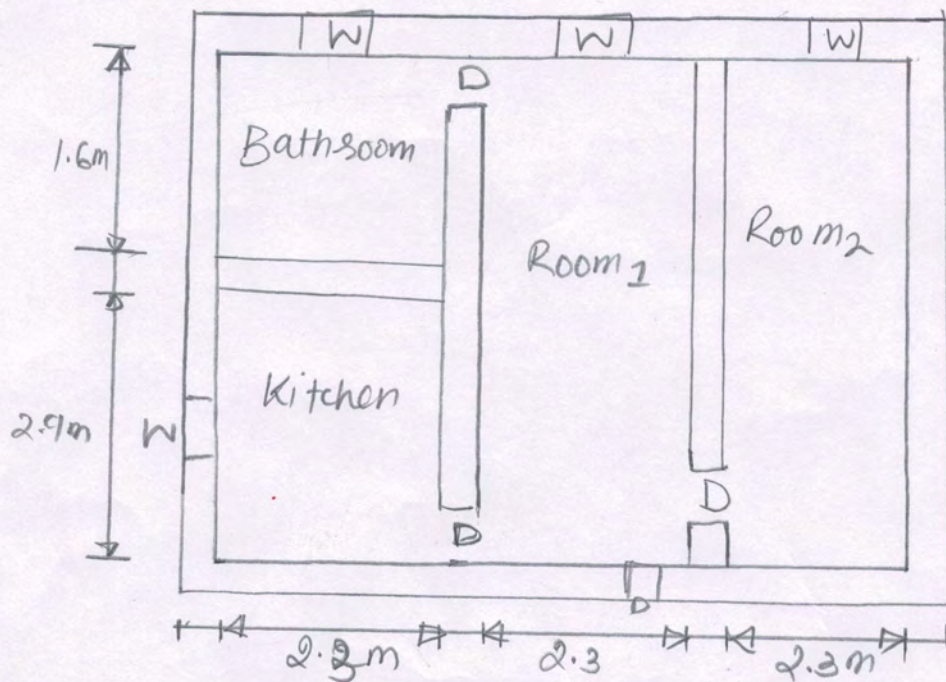
$$V_{ol}^{m} = 2466 + 8349.76 + 117228$$

$$\Rightarrow 128043.76 \text{ m}^3$$

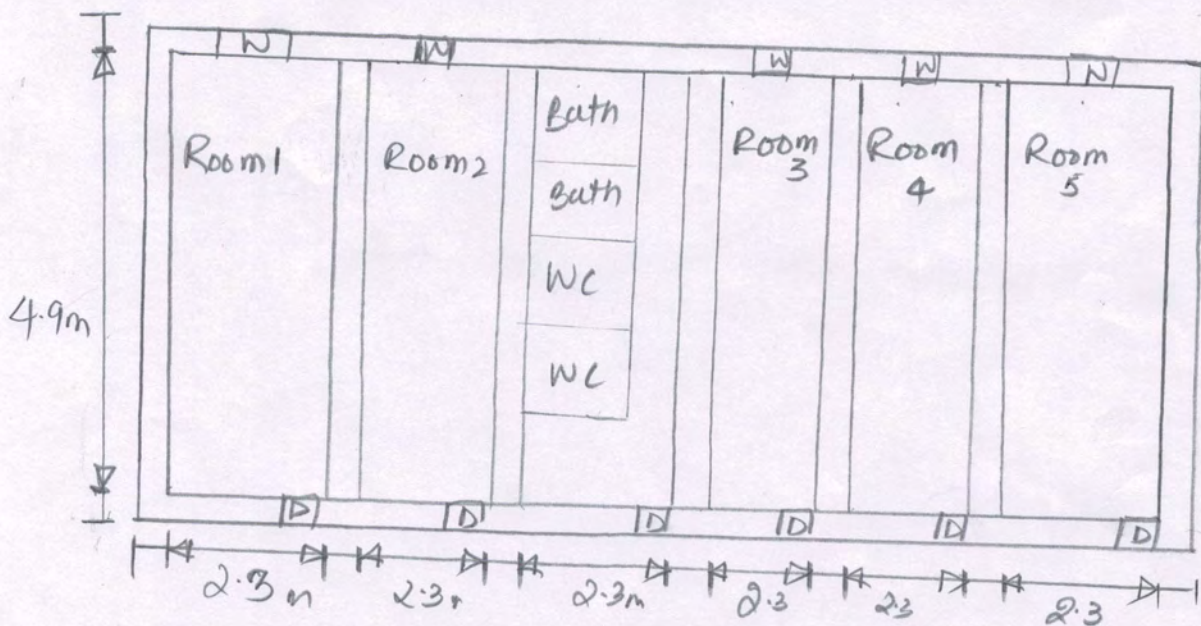
Free Layout of Mahura Colony Rajarwarl



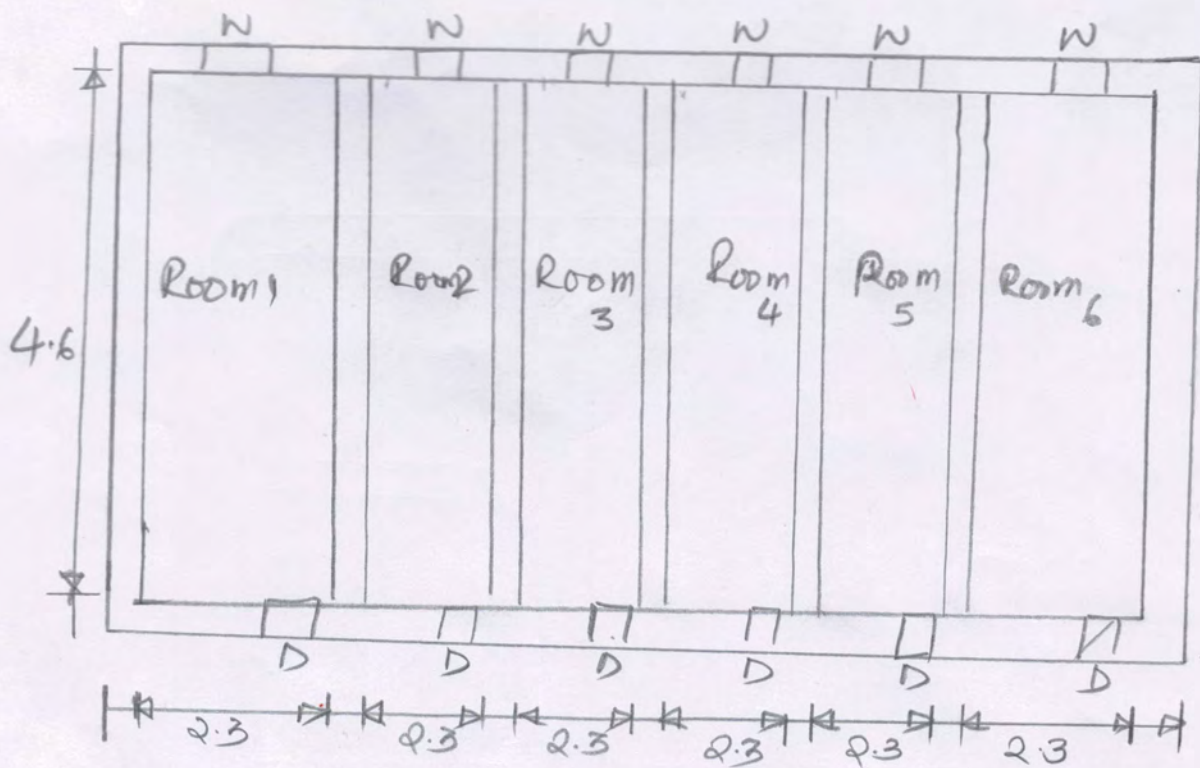
Qtr NO A₁ - A₁₂ = 12 NO.



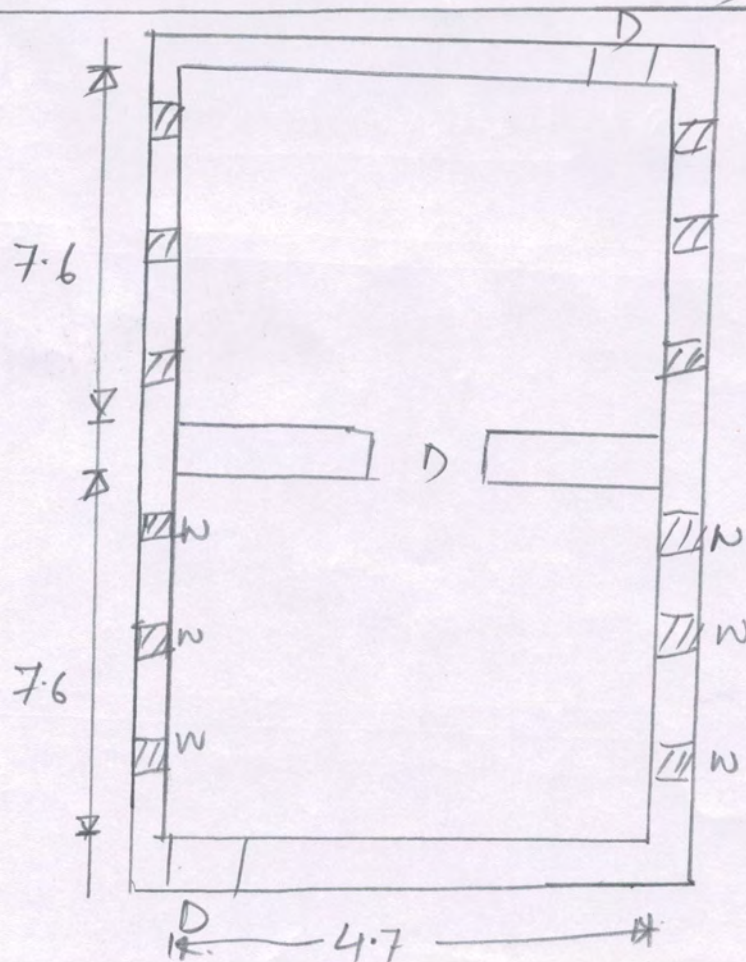
Qtr NO. (I₁ - I₁₀), (H₁ - H₁₀), (F₁ - F₁₀), (G₁ - G₁₀), (E₁ - E₁₀) = 50



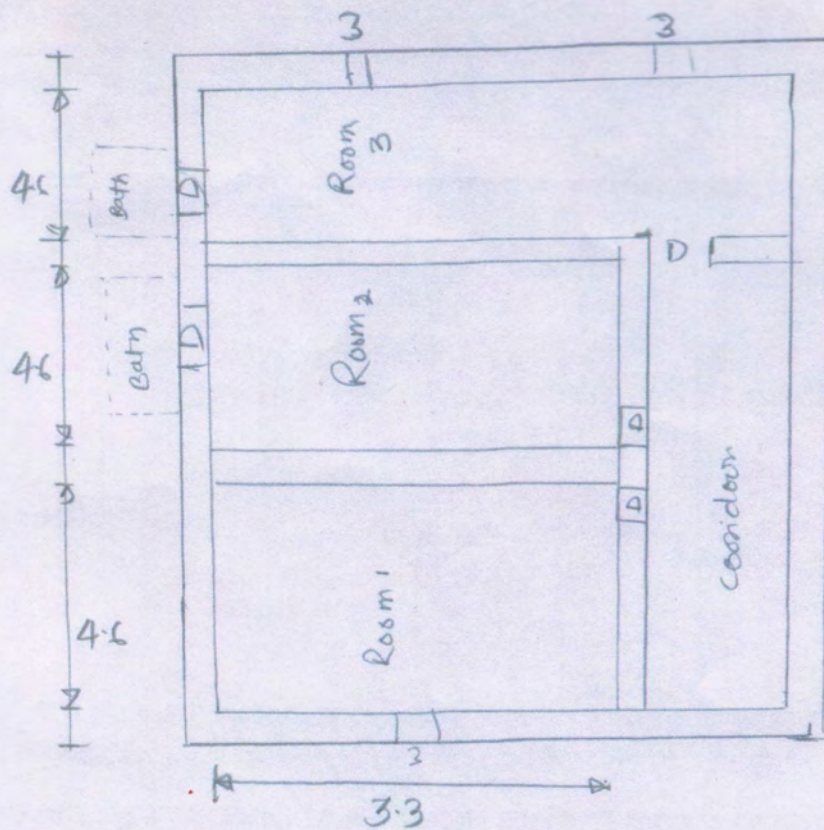
Qto. $(D_1 - D_{12}), (C_1 - C_{12}), (B_1 - B_{12}), (A_1 - A_{12})$ (morning) 57



Qto. $(A_1 - A_2), (A_3 - A_4), (A_5 - A_6), (A_7 - A_8), (A_9 - A_{10}), (A_{11} - A_{12}) = 12$ NO.



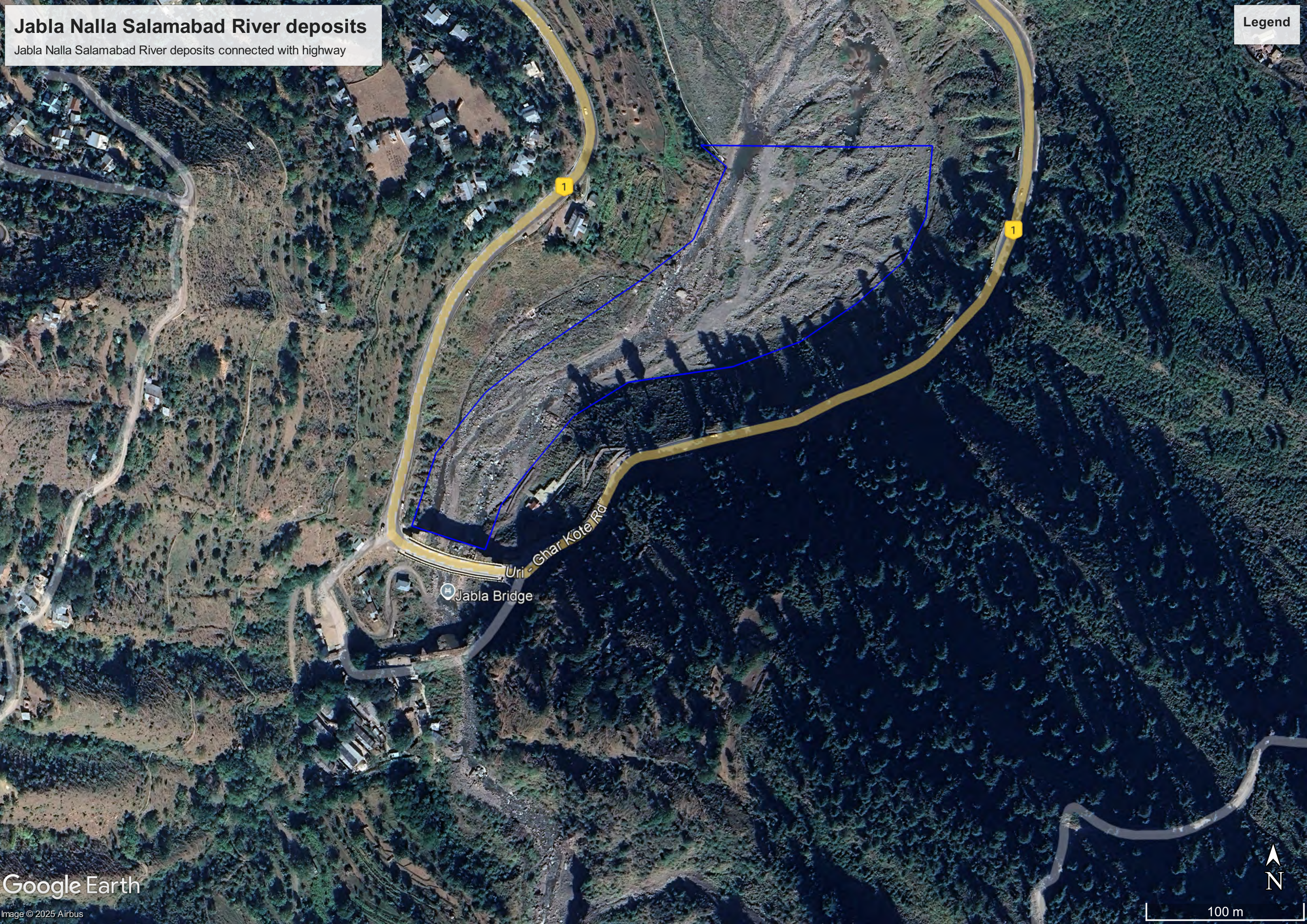
(J1-J6)
No of Room = 6



Jabla Nalla Salamabad River deposits

Jabla Nalla Salamabad River deposits connected with highway

Legend



Sheeri Shoal Deposits

Sheeri Shoal River bed deposits connected with highway

Kair maidan

Legend





Photo 5.1.1 (A) General View of Sheeri Village Shoal Deposit (UR-I St.II G-I)



Photo 5.1.1 (B) Inside View of Pit for Sheeri Village Shoal Deposit



Photo 5.1.2 (A) General View of Salamabad Shoal Deposit (UR-I St-II G-2)



Photo 5.1.2 (B) Inside View of Pit for Salamabad Shoal Deposit (UR-I St-II G-2)



Photo 5.1.3 (A) General view of Mohra P/H Terrace Deposit (UR-I St.II G-3)



Photo 5.1.3 (B) Inside View of Pit for Mohra P/H Terrace Deposit (UR-I St.II G-3)



Photo 5.2.1 (A) General View of Naushera Rock Quarry (UR-I St.II R-1)



Photo 5.2.1 (B) Inside View of Drift, Naushera Rock Quarry (UR-I St.II R-1)

5.2.2 Hajipeer Rock Quarry (UR-I St.-II R-2)

This rock quarry is situated on the right bank of Hazipeer nala (refer plate 3.1) and presently well connected with road network. This rock quarry contains compacted silt stone/sand stone. This quarry has been surveyed on 1:1000 scale with contour

Table 5.2.6 Test Result of Fine Aggregate Samples from Hajipeer Rock Quarry (UR-I St II R-2)

Sl. No	Sample No.	Specific Gravity	Water Absorption (%)	FM	Silt Content (%)	Clay Content (%)	Presence of organic impurities	Soundness loss with Na ₂ SO ₄ (%)
1	UR-I St-II R2-1	2.57	1.79	2.82	14.34	Nil	Nil	6.31
2	UR-I St-II R2-2	2.59	1.29	2.89	11.98	Nil	Nil	2.70
3	UR-I St-II R2-3	2.50	2.25	3.10	17.76	Nil	Nil	2.96



UR-I St-II R2

Photo 5.2.2 (A) General View of Hajipeer Rock Quarry (UR-I St II R2)



Photo 5.2.2 (B) General View of Hajipeer Rock Quarry (UR-I St II R2)



Photo 5.2.2 (C) Inside View of Drift, Hajipeer Rock Quarry (UR-I St II R2-1)

5.2.3 Excavated Material from HRT (UR-I St-II R-3)

The excavated material from HRT will be utilized as concrete aggregate (refer plate-3.1). This rock quarry contains Quartzitic schist. It is estimated that 1.50 lakh cum total aggregate materials is available from this deposit.

Representative samples with identification no. UR-IST-IIR-3-1 & UR-IST-IIR-3-2 were tested for physical parameters from NCB, Ballabgarh for its suitability, (refer annexure-

Area Outside 1 A

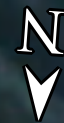
ARea about 0.13 hectare including access road and the usable area

Legend



Salim Kambal Wala

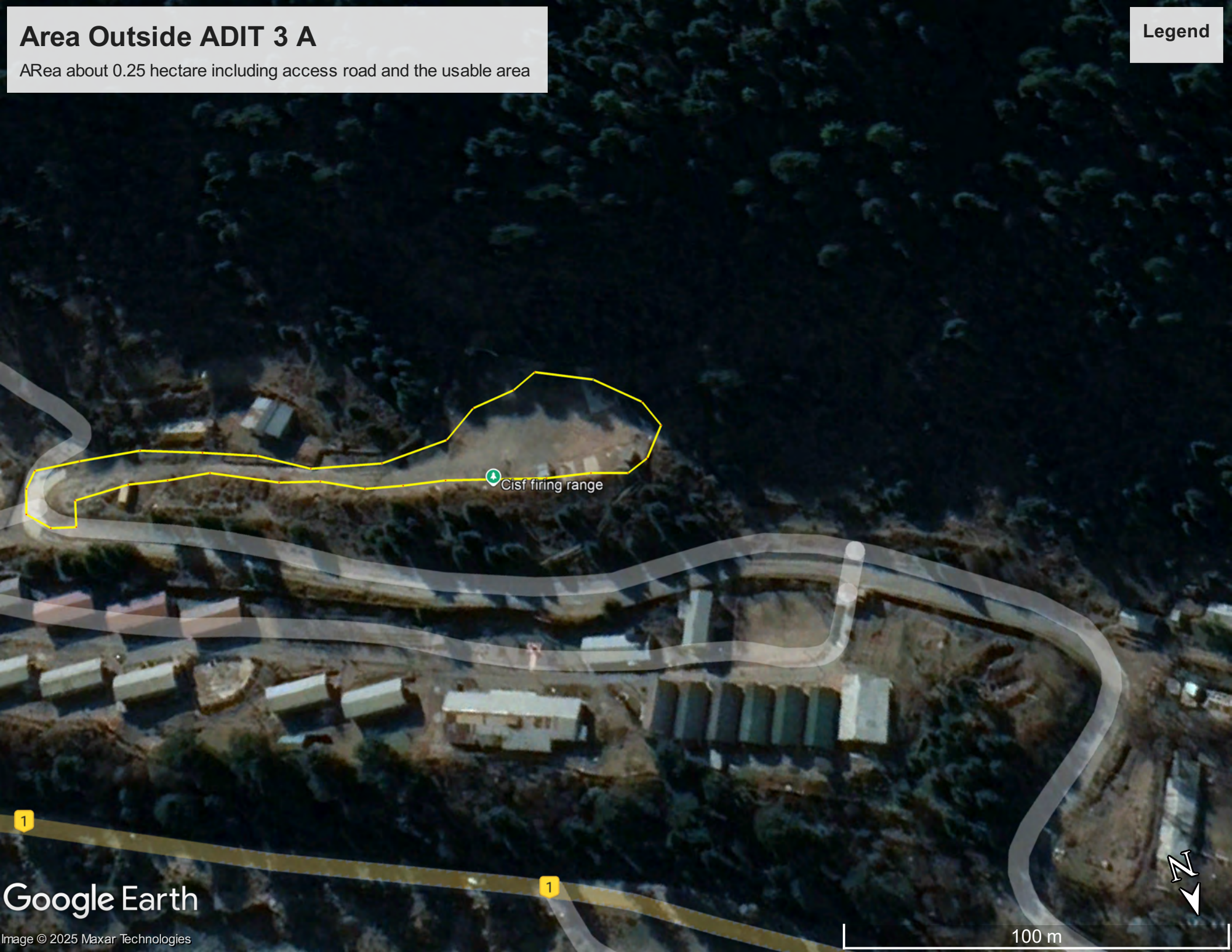
1



Area Outside ADIT 3 A

ARea about 0.25 hectare including access road and the usable area

Legend



Cisf firing range

1

Google Earth

Image © 2025 Maxar Technologies

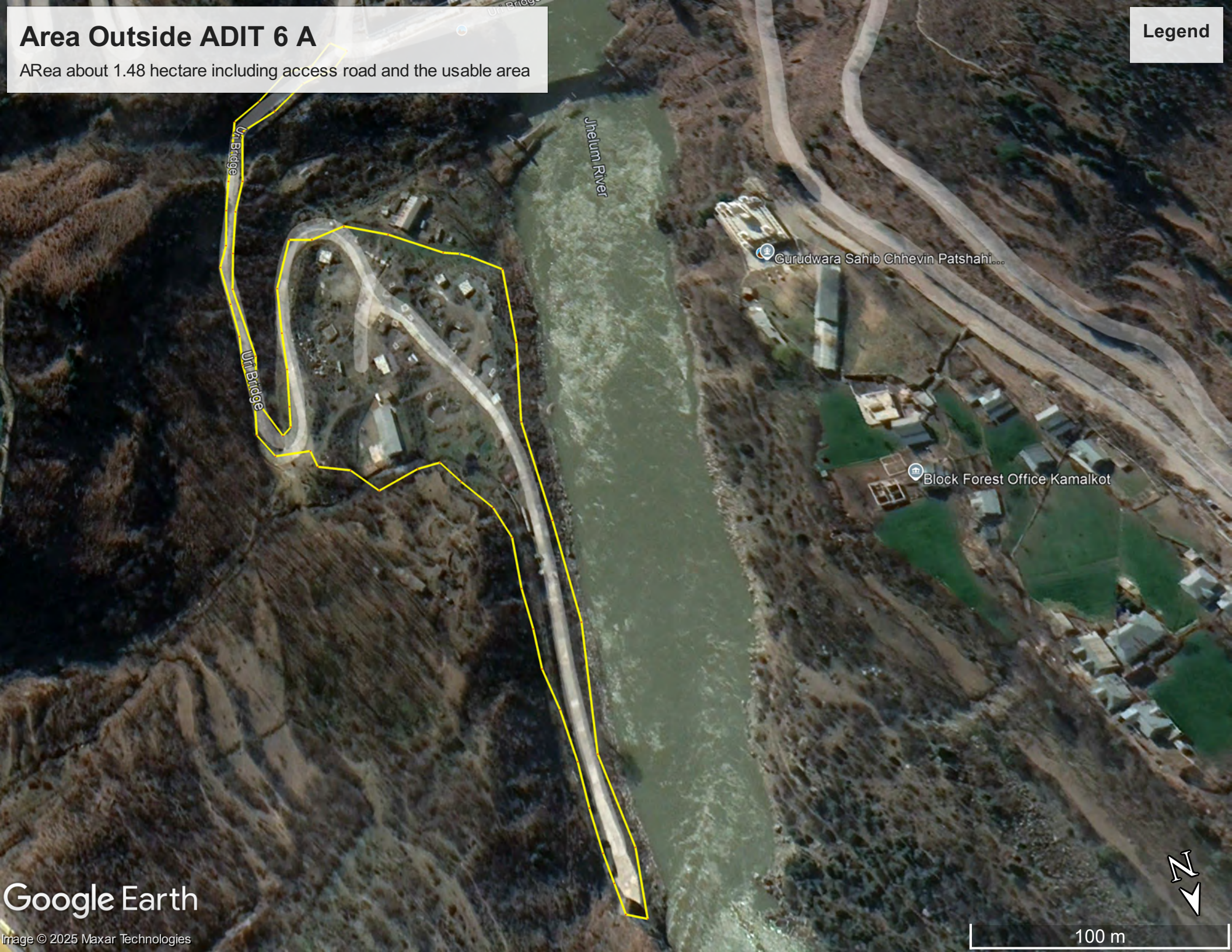
1

100 m

Area Outside ADIT 6 A

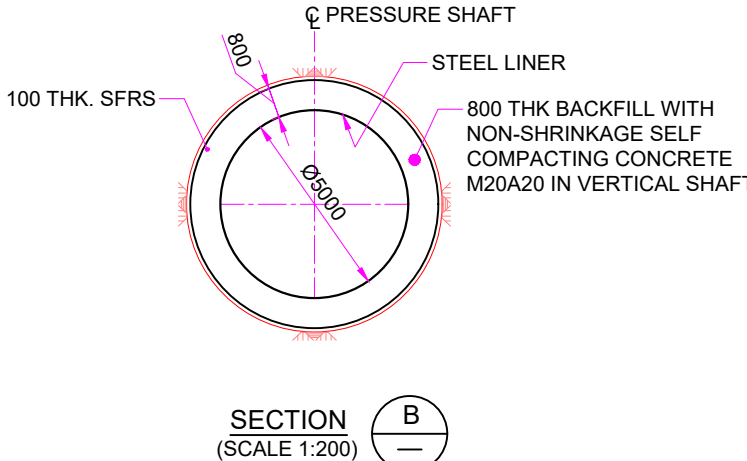
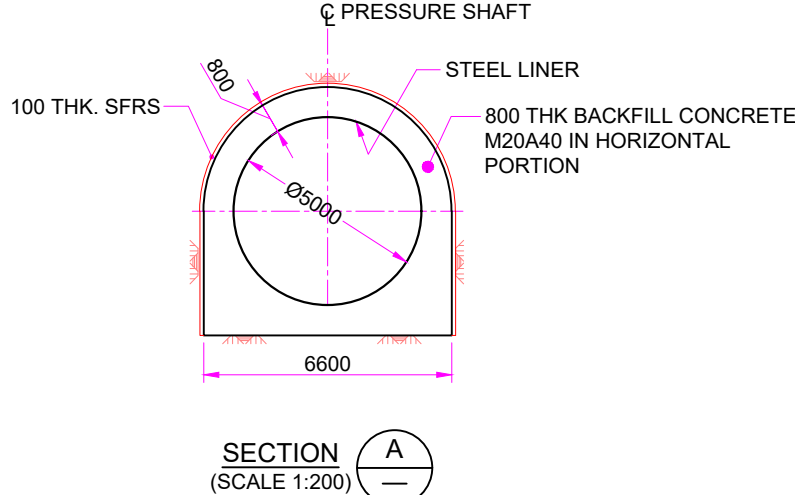
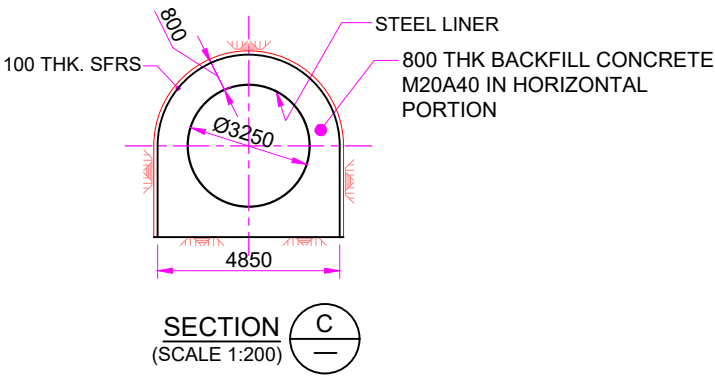
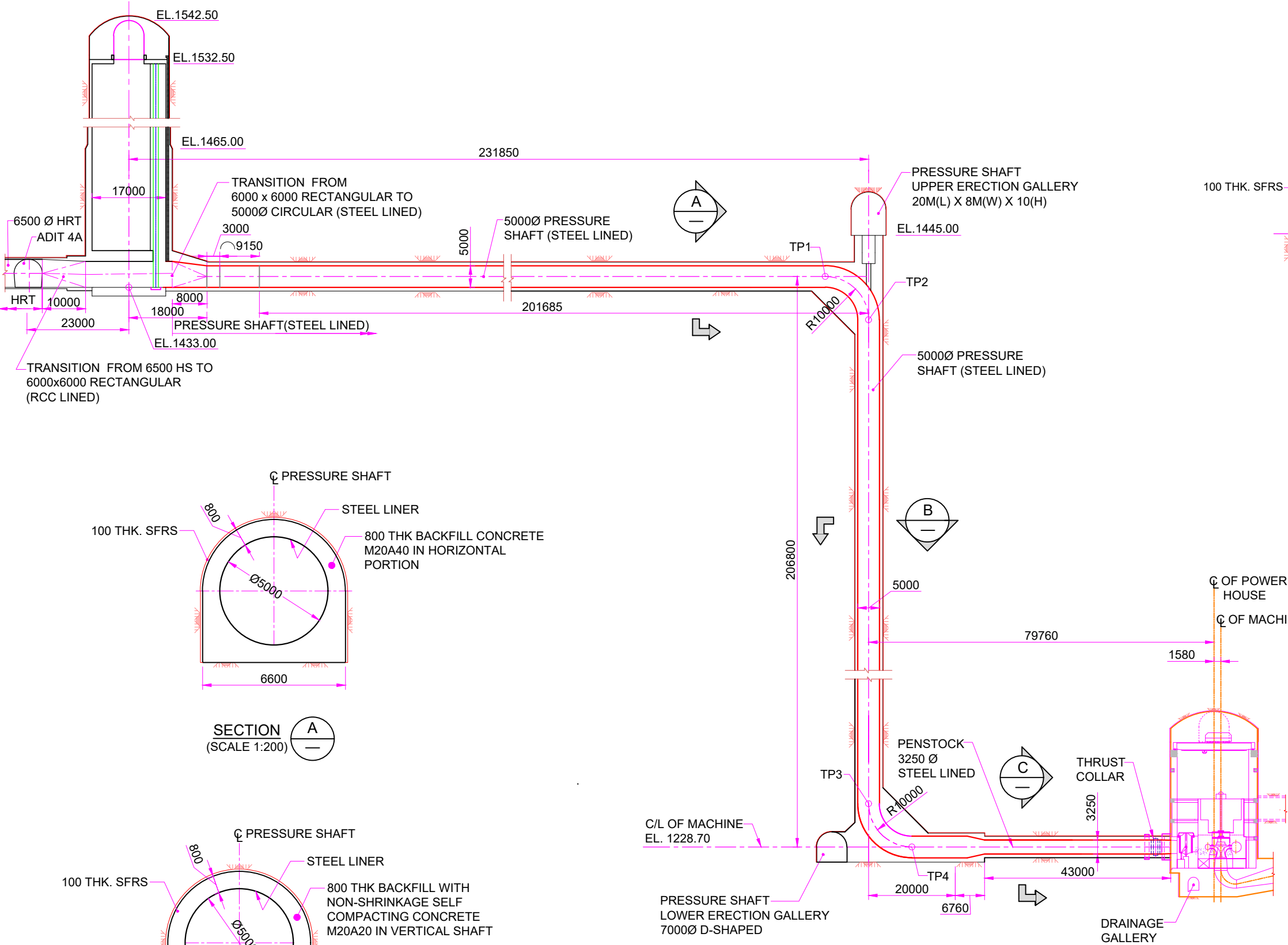
Area about 1.48 hectare including access road and the usable area

Legend



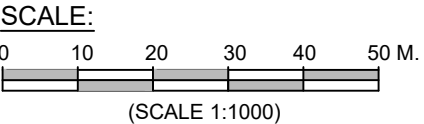
Appendix-II to Clarifications to Queries received after Pre-Bid Meeting

Appendix-II



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRE AND ELEVATIONS IN METRE.
 2. VARIOUS SIZE AND LEVELS HAVE BEEN INCORPORATED IN THE DRAWING WHICH MAY BE MODIFIED DURING DETAILED DRAWING.
 3. THE BLASTING SHALL BE DESIGNED BY THE CONTRACTOR FOR EXCAVATION OF ALL UNDERGROUND WORKS TO BE PERFORMED AND SHALL BE CONSTANTLY MONITORED CONSIDERING THE SAFETY OF THE EXISTING STRUCTURES OF URI-I H. E. PROJECT.
 4. GRADE OF BACKFILL CONCRETE IN HORIZONTAL PORTION OF PRESSURE SHAFT SHALL BE M20A40 AND IN VERTICAL PORTION NON-SHRINKAGE SELF COMPACTING CONCRETE CONFORMING TO SECTION B.9 OF TECHNICAL SPECIFICATION.

TENDER DRAWING
NOT FOR CONSTRUCTION



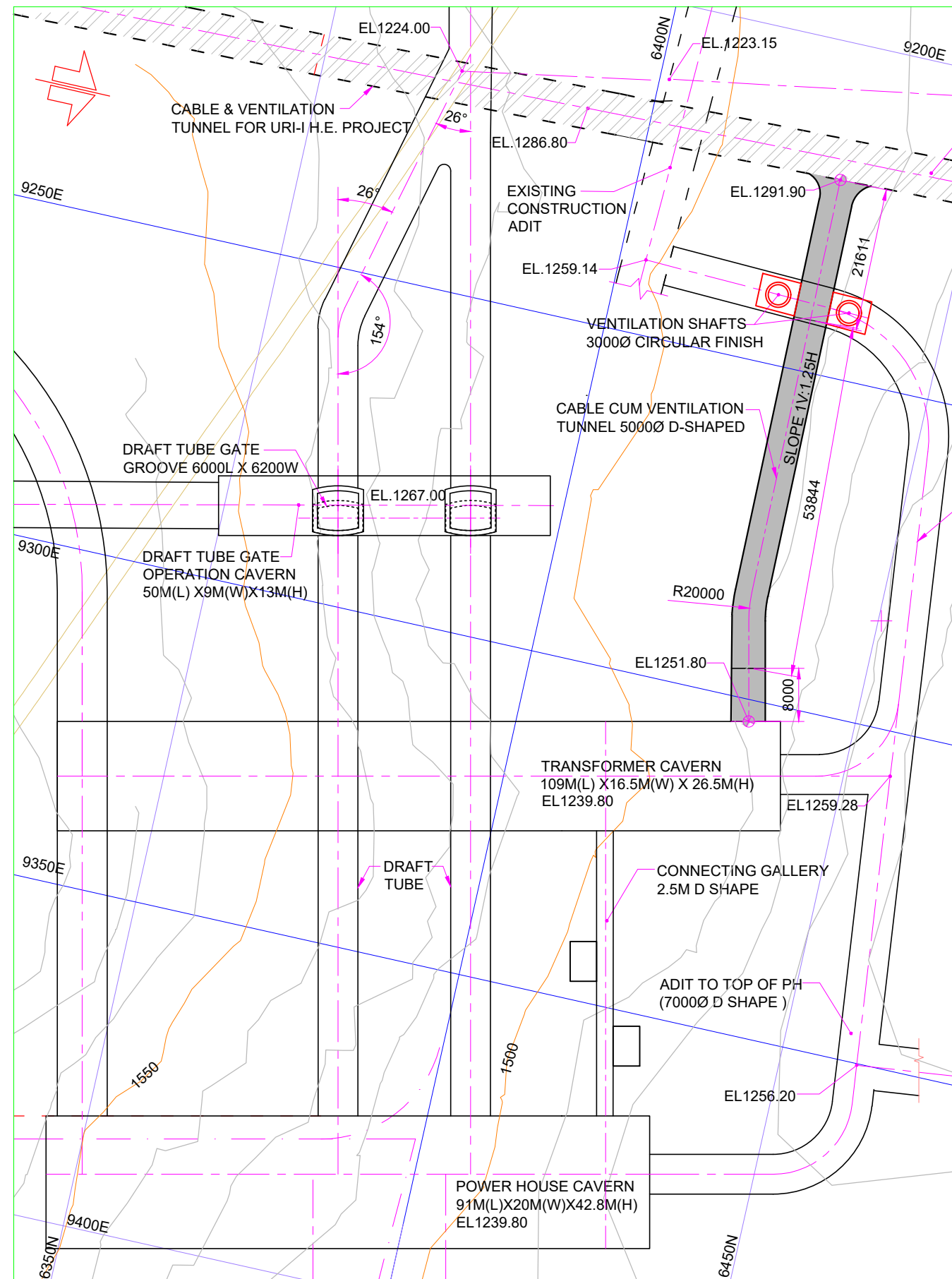
LONGITUDINAL SECTION OF PRESSURE SHAFT

एन एच पी सी लिमिटेड
(भारत सरकार का उद्यम)
NHPC Limited
(A GOVT. OF INDIA ENTERPRISE)

उरी। द्वितीय चरण जल विद्युत परियोजना (जम्मू एण्ड कश्मीर)
URI-I STAGE-II HYDROELECTRIC PROJECT (J&K)

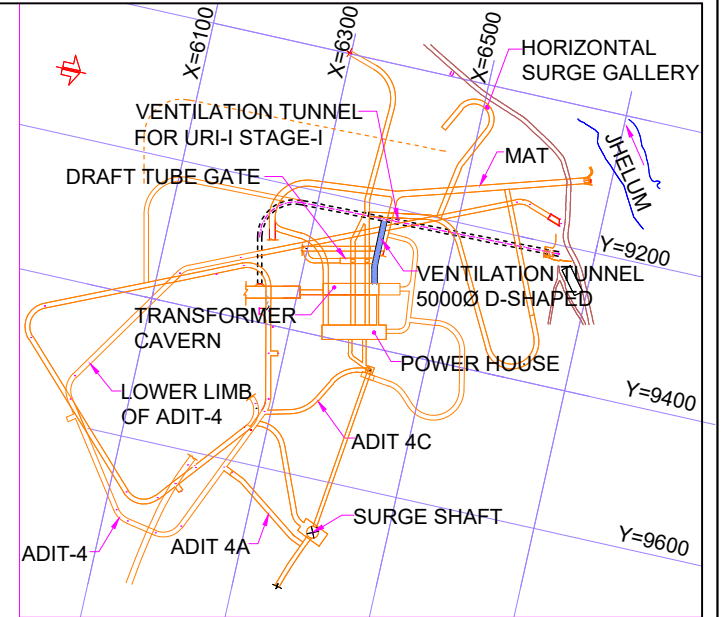
**PRESSURE SHAFT
GENERAL ARRANGEMENT
L-SECTION THROUGH CENTRE LINE OF UNIT-1**

ISSUED FOR TENDER	DRAWN अंशुभित ASLAM . A	SUBMITTED प्रस्तुत ASLAM . A	RECOMMENDED अनुमोदित VINOD . K	APPROVED अनुमोदित SAKET KUMAR
DATE दिनांक	NO. संख्या	REVISION OR ISSUES	BY उद्दिष्ट संख्या	CH. APP.
DESIGN MEMO NO. डिजाइन मेमो संख्या				
MARCH, 2025	3KT1	41	GA	028



EXISTING CABLE CUM VENTILATION TUNNEL FOR URI-1 H.E. PROJECT

CONSTRUCTION ADIT TO POWER HOUSE CAVERN 70000 D SHAPE



KEY PLAN

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS ; LEVELS, AND GRID ARE IN METRES.
2. THIS DRAWING IS DEVELOPED BASED ON POWER HOUSE AREA SURVEY RECEIVED FROM PID VIDE E-IOM NO : NH/CO/PID/2021/443 DATED 10.08.2021 AND ADIT LOCATION VERIFIED BY PID E-IOM NH/CO/PID/2023/722 DATED 15.11.2023.
3. VARIOUS SIZE AND LEVELS HAS BEEN INCORPORATED IN THE DRAWING MAY BE MODIFIED DURING DETAILED DESIGN.
4. THE BLASTING SHALL BE DESIGNED BY THE CONTRACTOR FOR EXCAVATION OF ALL UNDERGROUND WORKS TO BE PERFORMED AND SHALL BE CONSTANTLY MONITORED CONSIDERING THE SAFETY OF THE EXISTING STRUCTURES OF URI-I H.E.PROJECT.

TENDER DRAWING
NOT FOR CONSTRUCTION

एन एच पी सी लिमिटेड
(भारत सरकार का उद्यम)
NHPC Limited
(A GOVT. OF INDIA ENTERPRISE)

उरी। द्वितीय चरण जल विद्युत परियोजना (जम्मू एण्ड कश्मीर)
URI-I STAGE-II HYDROELECTRIC PROJECT (J&K)

POWER HOUSE
CABLE CUM VENTILATION TUNNEL
PLAN

ISSUED FOR TENDER				DRAWN				APPROVED			
DATE	NO.	REVISION OR ISSUES	BY	CH	APP	डिजाइन	S.TANWAR	प्रस्तुत	S.TANWAR	अनुमोदित	SAKET KUMAR
DESIGN MEMO NO.						DATE	MARCH, 2025	DRG. NO.	NHUR-I(II)	4CT1	41
डिजाइन मेमो संख्या						दिनांक	25	डिजाइन संख्या	063	063	00