

CORRIGENDUM -3 TO TENDER SPECIFICATION BHEL PSSR SCT 1595 - DT:14/09/2015

Some of the bidders sought clarifications vide letters in regard to TENDER SPECIFICATION BHEL PSSR SCT 1595 - Levelling and Grading works containing Package 1 and Package 2 for 5 x 800MW Yadadri Thermal Power Station at Veerlapalem Village Dameracherla mandal Nalgonda district Telangana state and BHEL's clarifications are furnished below for information.

Sr No	Clause	Tender Stipulation	Query	BHEL reply
1	Bid submission	Bid submission is on 15.09.2015	Time Extension by one month i.e. upto 15.10.2015	Time extension provided upto 29.09.2015
2	PQ Criteria NIT Annexure-3 page 25	<p>Bidder should have executed the following in Power/Industrial Projects in the last seven years reckoned from the latest due date of bid submission:</p> <p>Bidder should have executed minimum quantity of earthwork in excavation including cutting in soft/hard rock of quantity 12,00,000Cum within one year, in one or cumulative of two concurrent contracts in the last seven years reckoned from the latest date of bid submission.</p>	<p>We request you to amend the PQ Criteria as:</p> <p>Bidder should have executed the following in Power/Industrial/Infra/Road Projects in the last seven years reckoned from the latest due date of bid submission:</p> <p>Bidder should have executed minimum quantity of earthwork in excavation and backfilling including cutting in soft/hard rock of quantity 12,00,000Cum within one year, in one or cumulative of two concurrent contracts in the last seven years reckoned from the latest date of bid submission.</p>	Bidders may refer Corrigendum 2 for revised PQR
3	Drawings		We request you to provide us the contour drawing & formation level to understand the depth of excavation.	Preliminary bore log detail and topographical survey drawing is attached.
4	TCC 1.3.1.2.1 page 37	Electricity For construction purposes to be arranged by the contractor.	We request you to provide electricity at a single point free of cost.	Tender Prevails
5	TCC 1.3.1.3.1 page 38	Water for Construction purpose to be arranged by the contractor.	We request you to provide water at a single point free of cost. Also, we presume that the boring for construction purpose in the site premises is allowable. Please confirm.	Tender Prevails

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
6	TCC 1.3.3.2 page 40	Land for labour colony shall not be provided by BHEL.	We request you to provide land for labour colony free of cost inside plant premises.	Tender Prevails
7	General	Interim Payment	We presume that 75% of the bill will be released within 7 days of submission and balance within 30 days.	Tender is clear
8	TCC 1.7.2.5 page 46	The Balance 5% of the item rate shall be released after completion of all works & on completion of material reconciliation and certified by BHEL Engineer	We request you to take an additional BG of 5% of the Contract value instead of Cash Retention.	Tender Prevails
9	General	Retention	As per TCC 1.7.2.5 page 46 - The Balance 5% of the item rate shall be released after completion of all works & on completion of material reconciliation and certified by BHEL Engineer. However, As per TCC VOLUME-IA PART - II CHAPTER - 1 SI No.2 page 59 - Retention Amount is not applicable in this contract. Please Confirm which one is correct.	This balance 5% and the retention amount is the same. Retention amount as per GCC clause is not applicable.

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
10	BOQ Item No. 1	Cutting of trees having girth more than 300 mm measured at a height of 1m above ground level including removal of roots, stacking the seviceable material like trunks,branches etc at specified area within the plant boundary and disposal of unseviceable parts/materials wittin a lead upto 1km etc all complete.	We presume that permission from forest / enviorment department for cutting the trees has been obtained by the Owner and will be available with the owner before starting of the project. Please Confirm.	Yes. Permission required if any will be provided by BHEL / TSGENCO.
11	NIT -Due date & time for offer submission.	15th September 2015, Time :15.00 Hrs	In order to make the correct & competitive cost analysis we need some more time to submit the bid as stipulated in the tender. Accordingly, we request you to extend the bid submission day for 15 days from the due date of submission.	Time extesnion provided upto 29.09.2015
12		General Technical Specification, Section – D, Clause – 6.02	Huge quantity of rock is envisaged (about 20 lakhs cum) in the work & it is not feasible/possible to stack for measurement purpose. Hence we request you to confirm the mode of measurement for rock shall be taken from pre levels & post levels of corresponding earth work	Kindly refer to the technical specification Clause 6.02.
13		Bore hole data	Please provide Bore hole data.	Preliminary bore log detail and topographical survey drawing is attached.

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
14		General	Please inform the status of land acquisition	Most of the land has already been acquired and the balance will be procured progressively by TSGENCO.
15	Tender drawing for Grading (in excavation (Drawing no. PE-DG-417-603-C001 & Construction Schedule Cl. 1.7.7 of VOL-1A – Part – 1 Chapter -VI, Page no. 46)	During site visit and interaction with concerned BHEL officials and topographical drawings available at site, it is understood that the structures like Boiler, Mill Bunker Bay, Power House etc., as mentioned in Package -1 in Cl.no.1.7.7-Construction schedule, located in Package – 2 area. -Kindly Clarify		Tender is clear. Main Plant area is getting covered in Package 1.
16	Cl.no. 22 Page no. 78 –GCC-Vol-1, Book-2 and Vol-1A Part-2, Page 57 of Vol-1, Book-1.	As per Sl.no.2 of Vol.1A, Part-2, Page 57 of Vol-1, Book-1 Retention amount is not applicable. However, as per Cl. 1.7.2 – Interin payment – Page 44 of Vol-1, Book-1. 5% of item rate shall be released after completion of work. - Please confirm that this clause (no.1.7.2) regarding interim payment will be applicable for this work.		This balance 5% and the retention amount is the same. Retention amount as per GCC clause is not applicable.
17	Ref. BOQ Item no.4 & Item no.5	The quantity for item no.4 for is 4,00,000 Cum and for item no.5 for is 16,50,000Cum. - Please clarify the activity difference between these two items.		Item description is clear.Bidder to quote accordingly.
18	Cl.no. 1.7.1 – Advance for Mobilisation.	As per this Clause interest bearing advance for Mobilisation limited to 5% of Contract value will be paid against submission of Bank Guarantee of atleast 110% of the advance valid for the Contract period. (1) Please confirm that the value of advance Bank Guarantee will be equivalent to 110% of the advance amount. (2) Please confirm that the value of advance Bank Guarantee will be allowed to be amended suitably with reduced value from time to time required for 110% of the outstanding advance amount only		(1) It is confirmed that the value of BG will be equivalent to 110% of the amount of advance. (2)Tender conditions prevail.

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
19	Cl.no. 1.15.13 Page 57 of Vol1-Book-1 – Additional Security Deposit	As per this Clause additional Security Deposit need to be submitted by successful bidder, if the final price is lesser by more than 20% of BHEL's estimates. In view of above, we would request you to kindly furnish BHEL estimate value for each Package to enable bidder to understand at the bidding stage itself, the value beyond the additional Security Deposit will be payable.		Estimate cannot be revealed.
20	Bore Log data	The proposed work involves major excavation at various depths. Hence, to correctly assess the soil conditions at various depths bore log details will be essentially required to correctly assess the type of soil, The type of rock etc., to enable bidder to quote to correct and reasonable prices by proper cost assessment.		Preliminary bore log detail and topographical survey drawing is attached.
21	Plot plan drawing with cont our lines and levels and proposed finished ground levels.	We hereby request to kindly arrange to issue the drawings with existing and finished ground levels to assess builders the required depth of excavation thereby to correctly assess the cost involvement and utilization of machineries.		Plot plan showing finished ground level of different block and contour drawing are attached. It is to note that the plot plan is yet to be approved by the Customer/Customer's Consultant. Accordingly finished ground level and extent of different area may vary during engineering
22	Land acquisition.	During the site visit it is observed that the areas as de-marked for Package -1 &2 consist of agricultural lands with crops being grown. It is also understood that this lands are yet to be acquired. Also the project sites do not have boundary walls. Kindly arrange to confirm the followings points: (1) The tentative period by which the proposed work is lively to commence. (2) The work will be commenced after completion of land acquisition for the area demarketed for the proposed work.		Proposed work is likely to commence within 15 days of the award of the work.
23	Disposal Yard	During the site visit it is understood that the area of disposal where excavated materials including Hard Rock are to be staked / dumped. -Please indicate the locations where the above materials can be stacked/ dumped to assess the scope of transportation required for the execution of work.		Area will be identified once the work starts at site within the plant premises.

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
24	Segregation of Serviceable & Unserviceable materials.	<p>Since the proposed project area is generally Flat surface with moderate undulation, it is proposed to take spot levels at each interfacing to the extent feasible between the layer of ordinary soil (as BOQ item no.2), Soft rock (measured in item no.3), Hard rock(measured in item no. 4&5).</p> <p>The area & volume as worked out based on recording of such levels witnessed by BHEL & Contractor should be considered for measurement & payment. This is proposed to avoid segregation of different types of soils. Since, the same may not be practically feasible and will not be cost viable.</p> <p>-Please confirm your acceptance.</p>		Please follow the tender specification
25	Access to project site	<p>During the site visit it is observed that the approach to work site from the Damercherla Town is very narrow village road and passing through existing village.</p> <p>-Please confirm whether any other assess to project site is available for movement of vehicles with heavy construction equipment & machineries.</p>		Road is being laid for vehicle approach from Damercherla town to Site. Alternate route is also available to enter site.
26	For Item no.6 of BOQ	<p>a) "Extra over Sl.no.1 to 6" is mentioned. It appears that this should be read as "Extra over Sl.no. 1 to 5"</p> <p>b) Please confirm that all transportation of earth any other materials will be executed for this project within the project premises only</p> <p>c) The quantity of excavation for Sl.no.2,3,4,5 is =2325737 (176329 + 101638 +400000+1650450)</p> <p>The quantity of carriage in item no.6 beyond initial lead of 1 Km as indicated as 4532702 Cum.</p> <p>It is understood that : If 100Cum of ordinary soil (sl.no.2) is transported for 3 Km lead then the quantity of carriage will be payable=100 Cum X 2 = 200 Cum (because the extra lead in this case beyond initial lead of 1 Km will be 2 Km.</p> <p>-Please confirm our above understanding is in order, it other wise, kindly confirm the payable quantity for the above propose case.</p>		<p>a) Noted.</p> <p>B) Disposal will be within the project premises.</p> <p>C) The bidder understanding is correct.</p>

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
27	Cl.no. 1.7.7 of Vol-1A of TCC Page 43- Construction Schedule	As per this clause construction schedule was mentioned for such structure without mentioning the quantum of work in each area. Kindly arrange to indicate the tentative quantum of earth work in "CUM" to correctly assess the work load to be executed with in the stipulated time period. (e.g. (1) Boiler, Mill Bunker Bay, ESP- 1(one) month , (2) Power House – 2(two) months etc.,		Contor plan and the finished level is provided. Bidder to work of the quantum accordingly.
28	Statutory clearance for Tree cutting	Please confirm that statutory clearance if required for cutting of trees shall be arranged by BHEL.		Yes. The same will be provided by BHEL/TSGENCO.
29	BOQ item no.1 – Cutting of Trees	Please confirm that the stacking of trees to be done within project premises only. The trees as stacked will be handed over to BHEL at the stacking point only. Please confirm accept of the above.		Yes.
30	VI.1.4.2 , Vol-I, Book-I, Pg 40 and Cl. 1.7.1.3 Pg 44	The number of tippers indicated as 40 Nos in Pg 40. The same is mentioned as 20 nos. in Page 44. -Kindly clarify.		Tender is clear.
31	Construction Water	Please confirm that installation of Bore well / Open well will be permitted for taking construction water with in the project premises		Bore well / open well can be made after obtaining clearance from statutory bodies if any.
32	Due date of submission of bid Pg. 4 of Vol-I , Book-I	The NIT for this Tender is published in Press on 01.09.2015 and the time for bid preparation & submission have been allowed for 14 days including festival and other Holidays. Since this tender is the Major tender involving substantial quantum of Earthwork to the tune of (23,00,000 Cum), detailed site investigation and critical examination of various statutory implications need to be examined as per the specific requirement for this tender. Hence, for preparation and submission of such bid, it is felt that the adequate time will be required and accordingly we hereby request to kindly arrange to extend the due date upto 30.09.2015. This was requested by us vide our letter no.0020B&R/MDS/EST-C/1481 DATED 05.09.2015.		Time extesion provided upto 29.09.2015
33	Space for Labour Camp.	Please arrange to confirm that Space for Labour Camp will be provided free of charges within Project premises.		Tender Condition Prevails

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
34	<p>Exemption of Works Contract Tax (WCT) for Sub-Contractor Issue of Form – 501B As per Andhra Pradesh gazette Part IVB dated 15th Sept'2011: cl. No.3(b) (copy of relevant gazette is enclosed)</p>	<p>As per Andhra Pradesh gazette Part IVB dated 15th Sept'2011: cl. No.3(b) (copy of relevant gazette is enclosed) “ Every dealer executing works contract may in lieu of the amount of tax payable by him under clause (a) opt to pay by way of composition at the rate of 4% of the total amount received or receivable by himself or through subcontractor subject to such conditions as may be prescribed: Provided that the sub-contractor, executing works contract on behalf of the contractor, who opts to pay tax under this clause, shall be exempted from levy of tax.” Please confirm whether BHEL will issue Form-501 B to Sub-Contractor, so that the sub contractor can avail exemption for WCT submission as per above notification. Accordingly, bidder can quote price excluding WCT, against issue of Form-501-B by BHEL , the main Contractor.</p>		<p>If WCT TDS is deducted form 501 B shall be issued.</p>
35	<p>Measurement of Quantities of Earth work – Page 85 of Vol-I, Book-I.</p>	<p>We would request you to please arrange to confirm the following points. (1) As per Tender Document of BHEL (Cl. No. 6.02 : Measurements – Page 85 of Vol. I - Book 1) stack measurements are mentioned. We apprehend that this being a huge voluminous execution, and also time is very short, the stack Measurement methodology may be extremely difficult. Accordingly, BHEL may consider to avoid stack measurement. – Please confirm your acceptance. 2) Further deduction of 50% as voids is not supported by any technical back-up. In due optimum 50% should be replaced by 15% or, this may be arrived at as per actual site condition observing joint records from time to time, duly considering the factor that different sized particulars will be there in the excavated material – Please confirm your acceptance.</p>		<p>Tender Prevails</p>
36			<p>In view of above, please clarify the following points: (1) The measurement of earth work in excavation (BOQ item Sl.no. 2 to 5) will be done at excavation area only, based on spot levels @ 10 M spacing on either side. – Please confirm. (2) Please confirm that the volume of earth work will be calculated by Simpson’s Rule / Trapezoidal Rule (based on the spot levels as above jointly recorded during execution at excavation area)</p>	

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
37	Space for storage of explosives within project premises	Please confirm that suitable space will be provided by BHEL for storage of explosives required for execution for the proposed work within project premises Free of Charges.		Open space will be provided by BHEL. Storage and preservation of explosives in line with the statutory requirement is in bidder scope.
38	Bid Qualification Criteria Page 18, Vol-1, Book-1	(a) Please confirm that the quantities executed for the ongoing projects; meeting the Pre-Qualification Criteria for this tender, will also be considered for qualifying the bidder. (b) The earth work including excavation in Soft rock/Hard rock executed in any type of Industrial or Infrastructure project will also be acceptable to be considered for qualifying the bidder.		a)Tender Prevails b)PQR to be modified as:Bidder should have executed the following in any type of Projects in the last seven years reckoned from the latest due date of bid submission:
39	Clarification regarding Royalty	(a) Please confirm that all activities related to excavation, leveling, grading, transportation of excavated / other material etc., for the proposed work will be executed within the project premises. (b) Since for the proposed work no material is brought from outside project premises, and the excavated materials are likely to be dumped / levelled / graded within the project premises, Royalty will not be payable – Please confirm. (c) Please confirm that if any royalty is payable for the executed work, the same may be reimbursed by BHEL on actual based on documentary evidence. Accordingly, bidder can submit the rates excluding cost of Royalty.		Tender Prevails
40	TCC/VOL-IA :PART – I/ CH-III/CL.1.3.5	WATER: Contractor has to make his own arrangements for his water requirement for his work and labour colony at his cost.	We request you to provide us water at free of cost for construction purpose as well as for our temporary facilities (like Site office, store, steel yard, labour camp etc.)	Tender Prevails

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
41	TCC/VOL-IA : PART – I CHAPTER – II	Scope of work The entire scope of work for subject tender is split into two equal packages i.e Package 1 & Package 2. The area covered under Package 1 & Package 2 is highlighted in the enclosed plot plan drawing i.e Volume-IA Part-II Chapter 3.	We request you to please provide us the coloured bifurcation for scope for both packages - 1 & 2, as it is not clear from the available tender drawing.	Tender drawing clearly showing the bifurcation of package -1 & 2 by putting different legends. Hence tender drawing is clear.
42		Material Supply	We presume that BHEL will not issue any materials under this tender Please confirm.	Tender is clear
43	TCC/VOL-IA : PART – I/ CH-VII/CL.1.7.1	Advance for Mobilisation	We request you to release the mobilisation advance as Interest free. If not, please provide us the present rate of interest for Mobilisation Advance. We request you amend the value as 10% of the contract value and recovery of the same should start after 4th Running Bill.	Tender Prevails
44	TCC/VOL-IA : PART – I / CH-VII/ Cl. 1.7.2	Interim Payment	We need more elaboration in release of Interim payment.	Tender is clear
45	TCC/VOL-IA : PART – I/ CH-VII/CL.1.8.4	Other Taxes & Levies Any other taxes and duties (except VAT & Service Tax) deemed fit.	We request you to kindly reimburse the difference in case of any variation for all other taxes and duties (including VAT & Service Tax) at actual on submission of documentary proof of payment during the tenure of contract. Please confirm.	Tender conditions prevail.
46	TCC/VOL-IA : PART – I/ CH-VII/CL.1.8.6	Statutory variations	We request you to kindly pay / adjust the difference against all types of statutory variations. Please confirm.	Tender conditions prevail.

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47	TCC/VOL-IA : PART – II/ CH-1	Additional Security Deposit	We request to provide the estimated value for both the packages.	Estimate cannot be revealed.
48	TCC/VOL-IA : PART – II/ CH-1	The following clauses published in General Conditions of Contract (Volume I Book- II) are not applicable to this contract. I. Retention Amount II. Price Variation Compensation clauses III. Overrun Compensation	We request you to pay / adjust ceiling free Price Variation for the entire contract period along with the extended period if any. Please confirm.	Tender Prevails
49	General Conditions of Contract : 2.7.9	Max. Ceiling limit for Liquidated damage is 10% of the contract value for the project.	We request you to amend the maximum limit to 5% of the contract value for the project, as most of the PSUs are considering the ceiling limit as 5%.	Tender Prevails
50		Geotechnical / soil investigation report	Please furnish the detailed Soil Investigation Report together with laboratory test results thereof together with the bore hole location plan, indicating thereon the bore hole numbers vis-à-vis the location of the proposed structures.	Preliminary bore log detail and topographical survey drawing is attached.
51	Notice Inviting Tender (NIT)	Earnest Money Deposit	We understand that One Time EMD with PSSR is acceptable for this tender package. Please confirm.	Acceptable
52	Notice Inviting Tender (NIT)	Last date of submission of Bid is scheduled on 15-09-2015.	Considering the scope of work, we earnestly request you to extend the due date for submission of tender bids by atleast 3 weeks after receiving of last Addendum / clarification / errata.	Time extension provided upto 29.09.2015
53	Notice Inviting Tender (NIT) : Sl. No. 12	Site visit	Please provide us the contact details / address of the concerned person for site visit.	You may contact Shri. Mukesh/Engineer-Yadadri Site. Contact number:9721454923

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54	Notice Inviting Tender (NIT) Annexure -3 / sl. No. 3	Qualification Criteria Bidder should produce documentary evidence . . . For the subject tender.	The valid blasting license can only be produced after the award of the work as W.O. No. & date is required to issue the same from the competent authority.	Blasting license need not be for a particular site.
55			Please confirm the works / facilities to be provided to client/ BHEL during period of execution.	Tender is clear
56	Volume - II Price Bid		We request you to allow us to submit our Price Bid in printed forms there are many items and space for writing is insufficient. Please confirm.	It is to be noted that only six items are available in the price bid for which the rate and amount (in figures and words) can be easily hand written.
57	Volume - II Price Bid : v	Extra over ST No. 1 to 6 for carriage of unserviceable material/earth	We understood that disposal area along with all the statutory clearance / compliance will be on account of BHEL. Please confirm.	Refer to reply for point 23
58	BOQ Item No 6	Qty : 45,32,702 cum	The Qty for disposal of unserviceable material (45 lacs) is more than the excavation qty (around 23 lakhs), Kindly confirm	Refer to reply for point 26
59	Price Variation clause		Kindly provide the price variation clause including extended period for delay not attributable to contractor.	Tender Prevails
60	Over Run Compensation		Kindly provide the ORC Clause Clause for delay not attributable to contractor.	Tender Prevails
61			Estimated cost of the work required – Package 1 & Package 2	Estimate cannot be revealed.
62			Submission due date may be postponed by 2 weeks as the site has to be visited	Time extension provided upto 29.09.2015

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63			Construction period of 12 months not enough 24 months required for execution of more than 7 lakh cum in excavation including rock	Tender Prevails
64			Bore hole chart with test results of material of the area required	Preliminary bore log detail and topographical survey drawing is attached.
65			Min & max depths of excavation proposed	Please refer plot plan for finished ground level and contour drawing for existing ground level to work out maximum depth and minimum depth of excavation.
66			Water table of the area required	Refer bore hole data as attached.
67			Requirement of shoring and shuttering in the excavated trenchers?	Refer bore hole data for the requirement of shoring and shuttering in the excavated trenchers.
68			Layout plan of worksite with contours and the final levels to be achieved - required	Refer reply for Sl No 20 & 21
69			Provision of Space for Accommodating the Explosives Magazine in work site by BHEL.	Open space will be provided by BHEL. Storage and preservation of explosives in line with the statutory requirement is in bidder scope.
70		Bidder should have executed the following in Power/Industrial Projects in the last seven years reckoned from the latest due date of bid submission:	We have executed the Earth work & Hard rock Excavation in Coal Mines (The Singareni Collieries Company limited) in huge quantity and this can be considered for PQ, PI to confirm. This is also connected to Energy Sector.	Bidder should have executed the following in any type of Projects in the last seven years reckoned from the latest due date of bid submission:
71			Tentative starting in which Month	Proposed work is likely to commence within 15 days of the award of the work.

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
72			Request for extension of time for bid submission for 4 Weeks.	Refer reply for Sl. No. 1
73			Request to consider the average financial turnover in any Three Consecutive years in past Seven years .i.e, average 31.00 Crores.	Tender conditions prevail.
74		Similar work Value - certificate	Please conform we can consider all type of Civil works value.,EW,PCC,RCC,BW,TMT Steel, Steel Fabrication, etc...- Total Value of Work,	BHEL shall consider all type of civil works value like EW,PCC,RCC,BW,TMT Steel, Steel Fabrication, etc...
75		Type of soil at plant	Please provide Geo technical survey / Bore log detail to find out the depth of soft/hard rock details	Refer bore hole data for the requirement of shoring and shuttering in the excavated trenchers.
76		Excavation Depth	Please provide the approx depth of excavation / cutting.	Refer reply for Sl No 20 & 21
77		Nature of Site Condition	Please provide contour plans or initial/final levels of the site.	Refer reply for Sl No 20 & 21
78		Tentative value of the project	please inform the tentative value of the project (both 1&2 packages) to take the Additional SD BGs.	Estimate cannot be revealed.
79		Usage of BHEL Site Premises	Contractor makes their own arrangements for labor sheds in the site premises without any pay.	Tender Prevails
80		Handling & Storage of Explosive	Kindly provide the details of explosive handling permission/storage location at BHEL site premises without any pay.	Refer to reply for point 67
81		Details about royalty	Please provide the details about royalty and other details for excavated soil transportation & dumping (even in our own land/soil if any)	Please refer to GCC.

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
82		Excavated soil dumping	Kindly clarify the excavated soil dumping locations/dumping methods on BHEL site Premises. (Weather required Compaction or not.)	Refer to reply for point 23
83	Ref No. 6.0 of Volume No. II Price Bid of Bill of Quantity	Extra over ST No. 1 to 6 for carriage of unserviceable material/earth for every 1 km or part thereof beyond an initial lead of 1km. CUM 45,32,702.00	While the total quantity of (Ref. No. 2), Earthwork in excavation (Ref. No.3) Earthwork in excavation in soft rock (Ref. No.4) Earthwork in excavation in hard rock (Ref. No.5) Earthwork excavation in hard rock (controlled blasting) is 1,76,329 + 1,01,638 + 4,00,000 +16,50,450 = 23,28,417 Cum, the total quantity for carriage of unserviceable material / earth as per Ref No. 6 is 45,32,702 cum. To be precise the total quantity of earth work in excavation is 23,28,417 cum but the total carriage of earth is 45,32,702 cum To please request you to clarify how the above is i.e carriage of earth (45,32,702 cum) is far more than the earth work excavation (23,28,417 cum)	Refer to reply for point 26

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Sr No	Clause	Tender Stipulation	Query	BHEL reply
84	PQR	It is mentioned that the bidder should have executed 12 lakhs cum of earth work including cutting in soft/hard rock in one or two concurrent contracts in Power/Industrial Projects. We have done more than 12 lakhs of earthwork including rock cutting in NHA I work in Mizoram. You are requested to confirm if we qualify to participate in the tender process.		Bidders may refer Corrigendum 2 for revised PQR

Note:-

All other Terms & Conditions remain unchanged.

GM / HR & SCT

Encl:-

1. Bore Hole Data - 09 Pages
2. PRELIMINARY TOPO SURVEY FOR NALGONDA SITE - 01 Pages
3. Plot plan with plant Grading Level - 01 Pages

BORE LOG DATA SHEET

BORE HOLE NO.1

Co-ordinates E=348930
N=1847450

Field Test	Nos	Samples	Nos	Commencement Date : 22/05/2015
Penetrometer (SPT)	0	Undisturbed (UDS)	0	Completion Date : 24/05/2015
Cone (Pc)		Penetrometer (SPT)	0	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 84.416 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Highly weathered, reddish brown, fine grained, highly fractured rock with greyish band.		NX rotary drilling from 0.00m to 10.00m				R1	CR=37% RQD=24%
0.75m					R2	CR=57% RQD=55%	
Moderately to slightly weathered / fresh, reddish brown, fine grained, highly fractured rock with greyish band.					R3	CR=73% RQD=32%	
					R4	CR=88% RQD=Nil	
3.00m					R5	CR=73% RQD=Nil	
					R6	CR=77% RQD=17%	
Slightly weathered to fresh, reddish brown, fine grained, highly to moderately fractured rock with greyish band.					R7	CR=88% RQD=65%	
					R8	CR=89% RQD=25%	
					R9	CR=91% RQD=81%	
7.50m					R10	CR=91% RQD=80%	
Fresh, light grey, fine grained, slightly followed by highly fractured rock.					R11	CR=98% RQD=11%	
10.00m							

BORE LOG DATA SHEET

BORE HOLE NO.2

Co-ordinates E=349221
N=1847450

Field Test	Nos	Samples	Nos	Commencement Date : 14/05/2015
Penetrometer (SPT)	0	Undisturbed (UDS)	0	Completion Date : 17/05/2015
Cone (Pc)		Penetrometer (SPT)	0	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 85.785 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m		NX rotary drilling from 0.00m to 7.00m					0.00
Moderately weathered, greyish brown, fine grained, moderately fractured rock.						R1	CR=43% RQD=13%
							1.00
						R2	CR=69% RQD=47%
							2.00
						R3	CR=86% RQD=75%
							3.00
						R4	CR=97% RQD=59%
							4.00
						R5	CR=93% RQD=87%
							5.00
						R6	CR=96% RQD=62%
							6.00
						R7	CR=95% RQD=51%
							7.00
Slightly weathered to fresh, greyish brown, fine grained, moderately to highly fractured rock.							
7.00m							

BORE LOG DATA SHEET

BORE HOLE NO.3

Co-ordinates E=349500
N=1847450

Field Test	Nos	Samples	Nos	Commencement Date : 18/05/2015
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 21/05/2015
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 86.098 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Reddish brown, silty clay with kankar mixture.		50	50	50	50	DS-1 *SPT-1 *SPT-2	0.30 0.50-0.53 0.60-0.62
0.40m Very dense, reddish brown, sandy silt with decomposed rock. (Residual soil).		50	50	50	50	R1	0.70 CR=56% RQD=18%
0.70m Moderately weathered, reddish brown, fine grained, highly to moderately fractured rock with greyish band.		Chiselling from 0.60m to 0.70m				R2	1.70 CR=91% RQD=88%
1.70m Fresh, reddish brown, fine grained, slightly fractured rock with greyish band.		NX rotary drilling from 0.70m to 15.00m				R3	2.70 CR=93% RQD=86%
3.70m						R4	3.70 CR=87% RQD=78%
						R5	4.70 CR=95% RQD=85%
						R6	5.70 CR=93% RQD=88%
						R7	6.70 CR=97% RQD=92%
						R8	7.70 CR=92% RQD=78%
						R9	8.70 CR=94% RQD=76%
						R10	9.70 CR=91% RQD=87%
						R11	10.70 CR=91% RQD=50%
						R12	11.70 CR=83% RQD=61%
						R13	12.70 CR=92% RQD=51%
						R14	13.70 CR=94% RQD=20%
15.00m N.B. - '*' means sample could not be recovered.							15.00

BORE LOG DATA SHEET

BORE HOLE NO.4

Co-ordinates E=348500
N=1847300

Field Test	Nos	Samples	Nos	Commencement Date : 25/05/2015
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 27/05/2015
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150 mm / NX.
Vane (V)		Disturbed (DS)	1	Level Of Ground : 79.584 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Deep yellowish brown, silty clay.							DS-1	0.50
0.70m Very dense, light brownish grey, silty sand with decomposed rock & mica. (Residual soil).		12	7	6	5	50	SPT-1	1.00-1.32
1.70m Moderately weathered, light grey, medium grained, highly fractured rock.		NX rotary drilling from 1.70m to 10.00m					*SPT-2	1.60-1.63
2.45m Moderately to slightly weathered, light grey, medium to fine grained, highly fractured rock.							R1	CR=44% RQD=Nil
4.70m Moderately weathered, light grey, medium grained, highly fractured rock.							R2	CR=56% RQD=Nil
5.45m Moderately to slightly weathered, light grey, medium to fine grained, highly fractured rock.							R3	CR=57% RQD=Nil
							R4	CR=61% RQD=23%
							R5	CR=41% RQD=Nil
							R6	CR=55% RQD=Nil
							R7	CR=53% RQD=13%
							R8	CR=64% RQD=45%
							R9	CR=51% RQD=Nil
							R10	CR=52% RQD=Nil
							R11	CR=55% RQD=Nil
9.60m Moderately weathered, light grey, fine grained, highly fractured rock.							R12	CR=45% RQD=Nil
10.00m N.B. - '*' means sample could not be recovered.								

BORE LOG DATA SHEET

BORE HOLE NO.5

Co-ordinates E=349880
N=1847300

Field Test	Nos	Samples	Nos	Commencement Date : 01/06/2015
Penetrometer (SPT)	1	Undisturbed (UDS)	0	Completion Date : 03/06/2015
Cone (Pc)		Penetrometer (SPT)	1	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 82.403 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m		NX rotary drilling from 0.00m to 10.00m					0.00
Completely to highly weathered, reddish brown, fine grained, highly fractured rock with greyish band.						R1	CR=18% RQD=Nil
						*SPT-1	0.75-0.77
		50				R2	CR=22% RQD=Nil
		2.0					
						R3	CR=24% RQD=Nil
						R4	CR=32% RQD=Nil
						R5	CR=35% RQD=16%
						R6	CR=33% RQD=Nil
						R7	CR=37% RQD=Nil
					R8	CR=36% RQD=Nil	
					R9	CR=37% RQD=13%	
					R10	CR=41% RQD=23%	
					R11	CR=39% RQD=27%	
					R12	CR=64% RQD=52%	
					R13	CR=58% RQD=22%	
					R14	CR=62% RQD=48%	
8.25m							8.25
							9.00
							9.50
							10.00
Moderately to slightly weathered, reddish brown, fine grained, moderately fractured rock with greyish band.							
N.B. - '*' means sample could not be recovered.							
10.00m							

BORE LOG DATA SHEET

BORE HOLE NO.6

Co-ordinates E=347800
N=1846800

Field Test	Nos	Samples	Nos	Commencement Date : 28/05/2015
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 28/05/2015
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 83.389 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.25 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES		
		EACH DIVN. = 15cm			Ref. No	Depth (m)	
Completely to highly weathered, yellowish grey, fine grained, highly fractured rock.		NX rotary drilling from 0.00m to 10.00m				0.00	
					R1	CR=11% RQD=Nil	↓
		50			*SPT-1	0.75-0.78	0.75
		3.0 cm Pentn.			R2	CR=8% RQD=Nil	↓
		50			*SPT-2	1.50-1.53	1.50
		3.0 cm Pentn.			R3	CR=9% RQD=Nil	↓
		50			*SPT-3	2.25-2.27	2.25
		2.0 cm Pentn.			R4	CR=13% RQD=Nil	↓
		50			*SPT-4	3.00-3.03	3.00
		3.0 cm Pentn.			R5	CR=13% RQD=Nil	↓
		50			*SPT-5	3.75-3.77	3.75
		2.0 cm Pentn.			R6	CR=22% RQD=Nil	↓
					R7	CR=23% RQD=Nil	↓
					R8	CR=24% RQD=Nil	↓
6.00m			R9	CR=33% RQD=Nil	↓		
Highly weathered, deep brownish grey, very fine grained, highly fractured rock.			R10	CR=25% RQD=Nil	↓		
6.75m			R11	CR=26% RQD=Nil	↓		
Highly weathered, deep brownish grey, very fine grained, highly fractured rock.			R12	CR=38% RQD=Nil	↓		
7.50m			R13	CR=35% RQD=Nil	↓		
Highly to moderately weathered, deep brownish grey, very fine grained, highly fractured rock.			R14	CR=49% RQD=Nil	↓		
10.00m					10.00		

N.B. - '*' means sample could not be recovered.

BORE LOG DATA SHEET

BORE HOLE NO.8

Co-ordinates E=349000
N=1849000

Field Test	Nos	Samples	Nos	Commencement Date : 05/06/2015
Penetrometer (SPT)	1	Undisturbed (UDS)	0	Completion Date : 07/06/2015
Cone (Pc)		Penetrometer (SPT)	1	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 99.839 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found


DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Completely to highly weathered, light grey, medium to fine grained, highly fractured rock.		NX rotary drilling from 0.00m to 10.00m				R1	0.00 CR=22% RQD=Nil
						R2	0.75 CR=21% RQD=Nil
						R3	1.50 CR=12% RQD=Nil
		50 2.0 cm Pentn.				*SPT-1	2.25-2.27 2.25
						R4	3.00 CR=24% RQD=Nil
3.75m Highly weathered, light grey, medium to fine grained, highly fractured rock.		Refusal				R5	3.75 CR=21% RQD=Nil
						R6	4.50 CR=27% RQD=13%
						R7	5.25 CR=29% RQD=20%
						R8	6.00 CR=31% RQD=13%
						R9	6.75 CR=32% RQD=17%
						R10	7.50 CR=31% RQD=13%
						R11	8.25 CR=40% RQD=Nil
						R12	9.00 CR=52% RQD=36%
						R13	9.50 CR=56% RQD=23%
						R14	10.00 CR=64% RQD=Nil
8.25m Moderately to slightly weathered, light grey, medium to fine grained, moderately to highly fractured rock.							
N.B. - '*' means sample could not be recovered.							
10.00m							

BORE LOG DATA SHEET

BORE HOLE NO.9

Co-ordinates E=349800
N=1848200

Field Test	Nos	Samples	Nos	Commencement Date : 03/06/2015
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 05/06/2015
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 114.298 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Completely weathered, light yellowish grey, fine grained, highly fractured rock.		NX rotary drilling from 0.00m to 10.00m					0.00
		50	30	cm	Pentn.	R1	0.00
		Refusal				*SPT-1	0.75-0.78 0.75
		Refusal				R2	0.75
		50				*SPT-2	1.50-1.52 1.50
		20				R3	1.50
		cm					2.25
		Pentn.				R4	2.25
							3.00
						R5	3.00
							3.75
						R6	3.75
							4.50
						R7	4.50
							5.25
						R8	5.25
							6.00
						R9	6.00
							6.75
						R10	6.75
							7.50
						R11	7.50
							8.25
						R12	8.25
							9.00
						R13	9.00
							9.50
						R14	9.50
							10.00

Higly to moderately weathered, light yellowish grey, fine grained, highly fractured rock.

N.B. - '*' means sample could not be recovered.



BORE LOG DATA SHEET

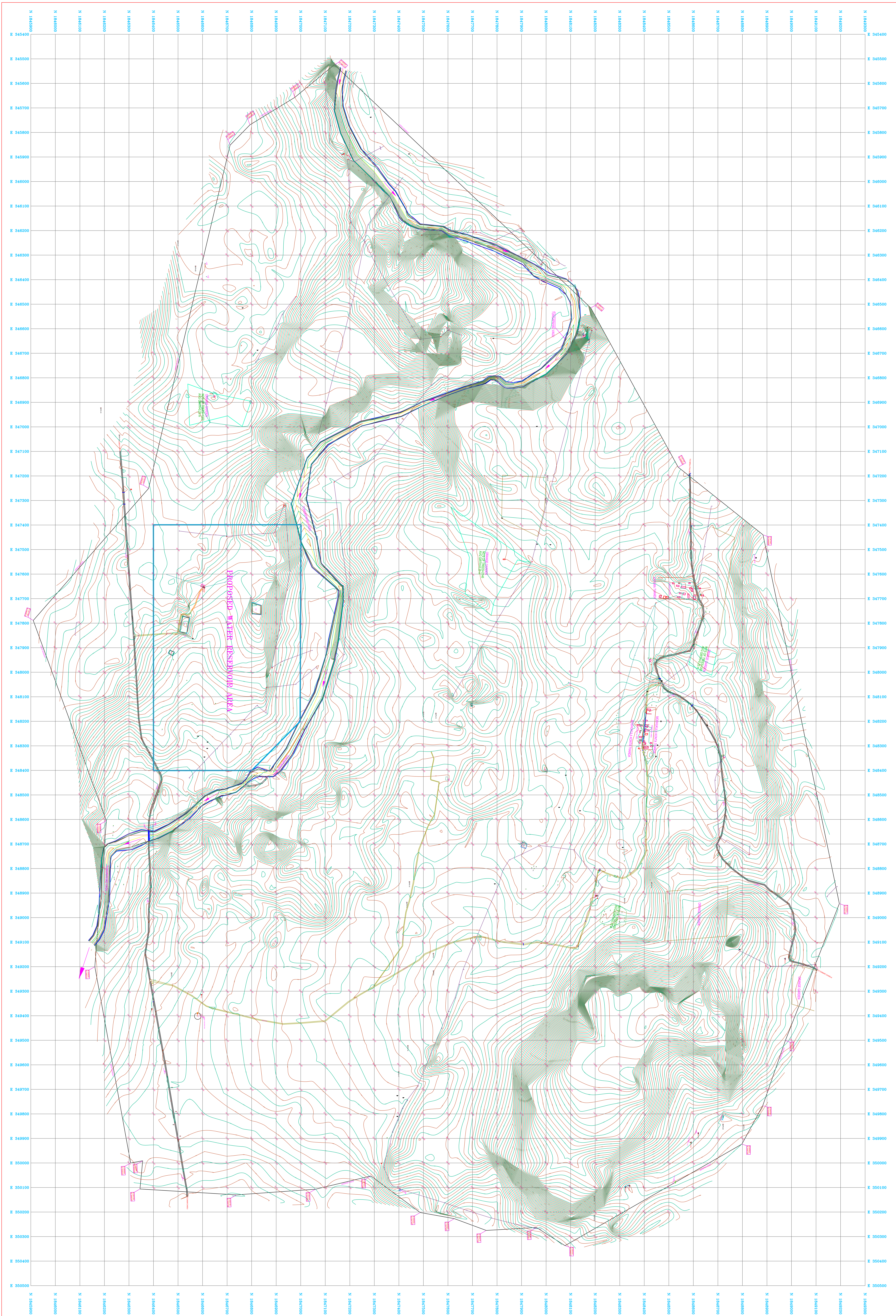
BORE HOLE NO.10

Co-ordinates E=349235
N=1847130

Field Test	Nos	Samples	Nos	Commencement Date : 31/05/2015
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 01/06/2015
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : NX.
Vane (V)		Disturbed (DS)	0	Level Of Ground : 83.179 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : Not Found

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m		NX rotary drilling from 0.00m to 10.00m					0.00
Completely weathered, reddish brown, fine grained, highly to moderately fractured rock with greyish band.	50	Refusal				R1	CR=12% RQD=Nil
		2.0 cm Pentn.				*SPT-1	0.75-0.77 0.75
1.50m	50	Refusal				R2	CR=17% RQD=Nil
		2.0 cm Pentn.				*SPT-2	1.50-1.52 1.50
Highly weathered, reddish brown, fine grained, moderately fractured rock with greyish band.	50					R3	CR=35% RQD=Nil
						R4	CR=56% RQD=28%
2.25m	50					R5	CR=65% RQD=43%
						R6	CR=61% RQD=53%
Moderately to slightly weathered, reddish brown, fine grained, highly to moderately fractured rock with greyish band.	50					R7	CR=81% RQD=70%
						R8	CR=88% RQD=72%
4.50m	50					R9	CR=81% RQD=78%
						R10	CR=81% RQD=77%
Slightly weathered to resh, reddish brown, fine grained, moderately to slightly fractured rock with greyish band.	50					R11	CR=85% RQD=79%
							9.00
10.00m							10.00

N.B. - '*' means sample could not be recovered.



NO.	DESCRIPTION	DATE	BY
1	PRELIMINARY DESIGN	2023-10-15	J. SMITH
2	FINAL DESIGN	2023-11-01	J. SMITH
3	CONSTRUCTION	2024-01-01	J. SMITH
4	OPERATION	2024-03-01	J. SMITH

NO.	DESCRIPTION	DATE	BY
1	PRELIMINARY DESIGN	2023-10-15	J. SMITH
2	FINAL DESIGN	2023-11-01	J. SMITH
3	CONSTRUCTION	2024-01-01	J. SMITH
4	OPERATION	2024-03-01	J. SMITH

