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1.0	NAME OF WORK
	The scope broadly covers development of open storage yard for storage of Plant Material, foundation works for BHEL Site Office, Storage Sheds, Lighting Mast, etc., fencing of storage yard & other areas, construction of roads & drains, sleepers, misc civil jobs, etc., for 1x800 MW unit at SCCL Singareni, Mancherial, Telangana by providing required materials (Except those which BHEL may provide as per tender terms, if any), manpower, including supervision, tools & plants, consumables, watch & ward, etc. as per technical specification and terms & conditions of tender taking into account all clarifications, confirmations and agreements till date.
2.0	GENERAL TECHNICAL REQUIREMENT
2.01	All quality standards, tolerances, welding standards & other technical requirements shall be strictly adhered to. The Bidder shall fully apprise himself of the prevailing conditions at the proposed site, climatic conditions including monsoon pattern, soil conditions, local conditions and site specific parameters and shall include for all such conditions and contingent measures in the bid, including those which may not have been specifically brought out in the specifications
2.02	All trees, bushes other vegetable matters shall be removed. Cleaning shall also include removing of stumps , roads, etc. to desired depth below furnished grades or as directed by BHEL. All debris from the above operation shall be removed from the site at location to be decided by BHEL.
2.03	Necessary approved drawings shall be provided by BHEL. The detail construction drawings/ sketches shall be issued to the successful bidder after the award of work.
2.04	i. Bamboo used as a reinforcement shall be as per IS-15912:2018. ii. Steel Fe-500 grade as per IS-1786:2008. iii. Aggregate Grade-I & II used for hard surfacing shall be as per IRC-19:2005. iv. Brick used for the construction works shall be as per 5.0 class designation as per IS-1077:1992. v. Cement type is PPC as per IS-1489:2015. VI. Using of coarse bottom ash (FM>2.6) having UBC not more than 4% as a replacement of fine aggregate in concrete up to maximum 100% based on the proper design mix & proven results of 28-days concrete strength.
2.05	All fabrications, and erection of structures must be executed according to the specification and drawings and all steel works should be as per IS Code No 800, 806, 875, 1161 of latest editions. Erection of truss is true to line and level & aligned properly, as per drawing & instruction of BHEL. Necessary connections of member are to be riveted/ bolted/ welded as per design & drawing. All fasteners required for the connections are to be supplied by the successful bidder.
2.06	No work shall be covered over or surrounded with concrete until it has been inspected and approved by BHEL.
2.07	Bidder may tie up with available local testing facilities/ third party nearby/inside the plant premises for caring out test of Cement / Concrete cubes & other civil laboratory tests. The Third party testing facility must have NABL accretion for caring out civil engineering laboratory tests cost to be borne by the vendor within their quoted price with the approval of BHEL.
2.08	Contractor shall ensure all required testing as per approved FQP by providing necessary testing tools / tie up with testing agency's (TPI) in consultation with BHEL-Engineer I/C.

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2.09	Concrete should be properly cured as per Indian Standard code of practice.
3.0	BHEL'S INPUT
3.01	BHEL will furnish one permanent benchmark in the vicinity of the work site.
3.02	All further layout work shall be carried out very accurately by the successful bidder with their own instruments. The successful bidder shall have on site a good number of survey instruments such as levels, theodolite, stuffs, measuring devices, survey umbrella etc.
4.0	METHOD OF MEASUREMENT
4.01	Mode of measurement shall be as per relevant clauses of technical specification of this tender. In case the same is not available, relevant IS in conjunction of IS:3385 shall be adopted. In case the same is also not available, the standard procedure adopted in CPWD shall be adopted. In case the same is also not available in CPWD, the measurement of the work done will be based on the mutual agreement between BHEL and successful bidder. In all the above cases, the interpretation of BHEL will be final and binding to the successful bidder.
5.0	SUPPLY & STORAGE OF MATERIALS
5.01	All materials including Cement, reinforcement steel & structural steel required for the execution of work under this contract shall be supplied by the successful bidder (unless otherwise noted) as per applicable item of Volume-III.
5.02	All the materials procured for work should be of approved brand and quality.
5.03	Cement used shall be of approved brands like Ultratech, ACC, Birla, Ambuja or equivalent.
5.04	Steel used shall be of approved brands like SAIL, Tata, Jindal, Shyam Steel, Jai Balaji or equivalent.
5.05	The successful bidder may be required to carry out the test as regards conformity/ suitability of materials with reference to IS code.
5.06	Construction materials shall be stored in proper condition so that they do not come in contact with dirt, clay, grass or any other injurious substance at any stage. The cement shall be stored above the ground level in perfectly dry watertight sheds.