

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Manufacturing of Crushed Stone Sand from Excavated Rock Boulders inside the plant premises including sorting and feeding of boulders, storage of sand at crusher site, disposal of silt/clay/rejects to the designated site and loading of Sand to the prospective consumer's vehicle from crusher site

At

- 1) 2x660 MW Talcher Thermal Power Station, Odisha**
- 2) 2x800 MW Singrauli STPP- Stage-III, Sonbhadra, UP**

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Chapter - I: PROJECT INFORMATION

Sl. No.	Description	Details	
		A	B
1	Project Title	2x660 MW Talcher Thermal Power Station	2x800 MW Singrauli STPP-Stage-III, Sonbhadra,UP
2	Customer	National Thermal Power Corporation Limited (NTPC Limited)	National Thermal Power Corporation Limited (NTPC Limited)
3	Location	The proposed site is at a distance of about 4 km from Talcher town and about 25 km from district headquarters Angul in Odisha state, India.	The Singrauli STPS is located on the northern bank of Rihand reservoir near Shakti Nagar in District Sonbhadra of Uttar Pradesh
4	Nearest Airport	Bhubaneshwar (approx. 150Km by road)	Varanasi(approx. 240 km by road)
5	Access By Road/Rail/Major Cities	Talcher is on Talcher-Cuttack section of North Eastern Railway (renamed East Coast Railway) at about 2 Km. However, a small railway station named 'Talcher Thermal' is located near project boundary. The area is accessible by NH-23 (renamed NH-149) at about 1 km.	Nearest railway stations are at Shaktinagar and Renukut located at a distance of about 3Kms and 60 kms respectively. Mirzapur station is approximately 200 kms away. NH 39
6	Temperature	Mean of daily minimum temperature = 15.1°C Mean of daily maximum temperature = 39.8°C	Max/Min temperature 44.8°C/8°C
7	Seismic Zone	The project site lies in zone III as defined in IS: 1893.	The project site lies in zone II as defined in IS: 1893.
8	Wind Speed	Design wind speed is 50 m/sec as per IS: 875 Part III	
1	INSTRUCTIONS TO BIDDERS		
1.1	The Bidder shall visit project site and acquire full knowledge and information about conditions prevailing at site and in & around the plant premises, together with site conditions, transportation routes, various distances, all statutory, obligatory, mandatory requirements of various authorities and all information that may be necessary for preparing the bid and entering into the Contract. All costs for and associated with site visits shall be borne by the bidder.		
1.2	Other contractors would be working in this area and their structures are to be protected. The material brought and stacked for construction should not make hindrance to other contractors.		
1.3	The information given herein is for general guidance and shall not be contractually binding on BHEL/Owner. All relevant site data /information as may be necessary shall have to be obtained /collected by the Bidder.		

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Chapter – II: SCOPE OF WORKS

2.1	Scope of Works:
2.1.1	Manufacturing of Crushed Stone Sand from Excavated Rock Boulders inside the plant premises including sorting and feeding of boulders, storage of sand at crusher site, disposal of silt/clay/rejects to the designated site and loading of Sand to the prospective consumer's vehicle from crusher site at 2x660 MW Talcher Thermal Power Station, Odisha and 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP
2.1.2	The scope of work is stipulated for 2 projects as below:- a) 2x660 MW Talcher Thermal Power Station, Odisha b) 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP Initially manufacturing works shall be taken up at Talcher, Odisha. Thereafter, the total arrangement shall be shifted to Singrauli project for further manufacturing works.
2.1.3	The expected approximate quantity of production of Sand is 1,85,000T (to be executed in 7 months) for Talcher & 8,00,000T (to be executed in 24 months) for Singrauli project.
2.1.4	Processing of Excavated Rock Boulders (Excavated Rock Boulders shall be provided by BHEL at designated Crusher Site of agency) to generate Crushed Stone Sand as per specification of IS-383 and IS: 2386 standard, using environmentally and eco-friendly technology. Activities involved in processing are: a) Sorting of dumped rock materials. b) Transportation/Shifting of rock materials & Loading in crushers. c) Crushing and Screening of Materials d) Stocking of Crushed Materials. e) Loading of Sand to the prospective consumer's vehicle. d) Washing Plant & Water Re-Circulation System Contractor has to ensure that no clay lumps shall be mixed up with rock boulders prior to feeding to crushers.
2.1.5	Loading of sand from processing plant, Stocking at designated stockyard adjacent to crusher site and Loading of Sand to the prospective consumer's vehicle is in Contractor's scope
2.1.6	Loading and Transportation of dry silt/clay/rejects from processing plant and unloading at designated site inside the plant premises.
2.1.7	Agency has to obtain all necessary statutory clearances/approvals for installation & operation of crusher. All liasoning for clearances from Local/State/Central Administration, Pollution board, etc. shall be in the scope of contractor and is deemed to be included in the quoted price.
2.1.8	Royalty charges if any shall be paid by the agency and the same shall be reimbursed to the contractor at actuals.
2.1.9	Contractor shall obtain written clearance of requirement of Crushed Sand from BHEL before start of work/prior to start of month. Based on the same BHEL shall provide rock boulders to the contractor for further production of Crushed Stone Sand.
2.1.10	The work under this contract shall be carried out as per BOQ Cum Rate Schedule and in compliance of tender conditions including technical specifications and approved drawings/ documents. -
2.2	General Scope:
2.2.1	The successful bidder shall take all measures to produce the required quantity and quality of Sand to meet daily requirements.

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2.2.2	The bidder shall plan for the crushed sand processing plant of adequate capacity to meet the requirement as specified above
2.2.3	The bidder shall give due consideration to the stoppages even during rainy season for supplying annual requirement.
2.2.4	The successful bidder shall maintain sufficient stock of Sand in stockyard to meet daily requirement.
2.2.5	Monthly quantity of Sand to be supplied during period of contract may vary on mutual agreement depending upon the demand requirement of prospective consumers of Sand which may be reviewed from time to time
2.2.6	The contractor, before starting the work, shall furnish to the Engineer-in-Charge the list of Plant equipments / Process Diagram / Trucks/ Tipping Trucks/ Pay loaders/light motor vehicles etc. proposed to be deployed for the work, with the related papers of registration, fitness certificate, permits, licenses, Insurance, driving licenses etc. for inspection. No tipping trucks/ trucks/ pay loaders/ equipments shall be deployed for the work without the approval of the Engineer-in-Charge.
2.2.7	Only equipment as elaborated above, in good and safe condition having valid fitness certificate permits/ licenses etc. (wherever applicable) and in respect of which the required taxes/ fees have been deposited and which are properly covered by insurance, shall be deployed for the work. BHEL shall have the right to inspect or arrange inspection of the vehicles/ equipment deployed by the contractor for the work at any time and declare any vehicle/ equipment unsafe and ask for its immediate withdrawal from the site/ operation. The contractor shall ensure prompt/ immediate compliance of the same
2.2.8	Only experienced, skilled and disciplined operators / drivers of sound health, good behaviour and antecedents having valid and requisite driving/statutory license shall be deployed by the contractor for operating the equipment/ driving dumpers deployed for the work
2.2.9	Providing all incidental items not shown or specified but reasonably implied or necessary for the successful completion of the work in accordance with contract.
2.2.10	Further this is to be noted that the drawings and the documents furnished along with this specification are the sole property of BHEL. It must not be used directly or indirectly in any way detrimental to the interest of the company.
2.2.11	Furnishing all labour, materials, supervision, construction plans, equipment, supplies, transport, to and fro the site, fuel, electricity, compressed air, water, transit and storage insurance and all other incidental items and temporary works not shown on specified but reasonably implied or necessary for the proper completion, maintenance and handling over the works in accordance with the stipulations laid down in the contract documents and additional stipulations as may be provide by the engineer during the course of works.
2.2.12	The area of work shall be cleared of all vegetation, rubbish and other objectionable matter and materials. No separate payment for these operations shall be made for such works.

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2.2.13	The Customer may depute their representative for checking and supervision of important stages of work. The contractor shall be required to provide all facilities for inspection of works at no extra cost to BHEL. Any defect in quality of work or deviations from drawings / specifications pointed out during such inspection shall be made good by the contractor in the same way as if pointed out by the BHEL Engineer, without any cost implication to BHEL.
2.2.14	Giving all notices, paying all fees, taxes etc., in accordance with the general conditions of contract, that is required for all works including temporary works.
2.2.15	Arranging for joint checking (with BHEL / BHEL's Customer / Consultant) of all site construction activities Preparation of joint protocols for each & every activity and maintaining quality records for audit/inspection as per approved FQP by BHEL.
2.2.16	The complete works shall be carried out as per BOQ cum Rate schedule. If any work covered in the scope of contract cannot be executed using items available in BOQ, additional / extra items shall be made and rates for such items shall be worked out as per tender provisions or as per discretion of BHEL. However, contractor shall be bound to execute all the works under the scope of the contract and decision whether an extra item is applicable or not, shall be taken by BHEL Engineer which will be binding on the contractor.
2.3	SCIENTIFIC INVESTIGATION AND TECHNOLOGY PROPOSED
2.3.1	The bidder shall clearly indicate the proposed technology for generation of Sand from rock boulders, required civil construction and illustrate with sketches and diagrams wherever required. The plant shall consist of suitable and sufficient capacity of process equipments and allied equipment with environmentally and eco-friendly technology (refer clause 6.B) to produce required quantity of Manufactured Sand. (Sand quality as per IS: 383 & IS: 2386 Standards).
2.3.2	Environmentally and Eco-Friendly Technology means: a). The technology to be adopted shall acquire Minimum usage of land. b). The technology to be adopted shall be power-efficient to promote clean energy. c). The technology to be adopted shall have more than 80% water recirculation capacity (Thickener). d). The technology to be adopted shall have auto sludge removal system, sludge dozing system or any other suitable technology. e). The technology to be adopted shall have sprinklers system at every source of dust generation to suppress the dust. f). The technology to be adopted shall have least noise pollution. g). The technology to be adopted shall have suitably covered Conveyor belts at every stage for generating Sand as per IS 383 & IS 2386 under the P&M like Crushing, Screening and Washing. h). Any other method/measures/technology that promotes production of Sand with least impact keeping in view of sustainable development towards environment
2.3.3	The Crushing Unit will be minimum 200TPH - III Stage Mobile Crusher having suitable screening provisions. The selection of machinery should be based on the most energy efficient operation i.e. KWH/MT , calculation of running load and line diagram of technology to be submitted to BHEL.
2.3.4	The overall productivity of Installation Unit shall be designed for Crushed Sand Output of 1000T on daily average basis and 1500T on peak demand.

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2.3.5	The bidder may undertake grain size, clay content, physio-chemical and flow characteristic etc. studies required on rock boulders at his cost to get the fair idea about the percentage of recovery and other required economics.
2.3.6	The bidder shall clearly indicate the specifications of all equipment along with its capacity to be installed for processing of rock boulders to produce Sand of required quality (as per IS-383 & IS 2386 standards) and quantity.
2.3.7	The bidder shall clearly indicate the operational plan for maximizing the recovery percentage
2.3.8	The bidder shall clearly indicate the proposed method of waste water treatment plan
2.3.9	Environment Protection Act, 1986 and rules and regulations made there under from time to time are to be strictly followed for loading, transportation, Processing etc. by mechanical means. Air pollution control measures are to be adopted as per SPCB and CPCB norms. The contractors shall follow the relevant provisions of clearance, as communicated by Ministry of Environment and Forest (MOEF), as applicable for the mine / project and also instructions of Engineer-in-Charge.
2.4	STACKING, MEASUREMENT AND PAYMENT OF SAND PRODUCED
2.4.1	Payment shall be made in line with actual dispatch quantity of Sand to ultimate consumer.
2.4.2	Sand loaded for Final dispatch into Consumer vehicles will be measured through Weighbridge in tonnes. BHEL shall allocate weighbridge for measurement within the plant premises. You shall deploy representative for joint verification of dispatched material.
2.4.3	In case, due to any reason BHEL/consumer-working agencies is unable to issue/pickup crushed sand for more than 30 days and lying in the stockyard, the following will be the modus operandi for payment: a). 90% of quantity of Sand lying in the stockyard for more than 30 days will be considered for payment. b). Balance 10% quantity will be considered for payment only after actual dispatch of stock of Sand to ultimate consumer or final bill whichever is earlier. The density factor of the crushed Sand to be considered shall be jointly derived at site for the stock estimate.
2.4.4	Proper record should be maintained by the contractor for the truck wise quantity of Sand dispatched.
2.5	DIVISIBLE CONTRACT
2.5.1	Bidder shall note that separate orders shall be placed in line with Price Schedule for: A) 2x660 MW Talcher Thermal Power Station, Odisha B) 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP
2.5.2	Separate Security Deposit & Retention Amount shall be applicable for both the orders. Closure of the contract shall be done separately at relevant project sites.
2.5.3	Notwithstanding anything stated elsewhere in the tender, the contract to be awarded as two orders on single source responsibility. But the two contract shall not in any way dilute the responsibility of the successful bidder for the successful completion of job as per tender and both contracts shall contain a cross-fall breach clause, namely that a breach in one contract shall automatically be classified as a breach on other contract which will confer a right on BHEL to terminate the other contract at the risk and cost of the successful bidder.

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2.6	EVALUATION OF BID
2.6.1	Bidder should quote price as per format provided in the tender. Bid shall be evaluated based on total price quoted including any loading of price as mentioned in technical specification/ SCC/ Price Schedule, as applicable.
2.7	Tentative Technical Staff Requirement:-
2.7.1	<ul style="list-style-type: none"> · Project Manager– 01 Head with relevant experience in line with contract scope. · Experienced Civil Engineer/Technical Person/QA & QC – 01 no's · Safety Engineer/Steward – 01 no's · Planning & Billing Engineer – As per requirement · Stores, Administration, Gate Pass – As per requirement. · Operator, Licensed Electrician, Mechanic - As per requirement <p>Note: Above manpower requirement is tentative only. Contractor shall augment manpower to meet the project schedule/ milestones. Deployment of manpower shall be progressive to meet the project schedule.</p>
2.7.2	Deputation of above man-power shall be jointly decided at site in line with construction Schedule.
2.7.3	Engineer/ supervisor for other functions like store & purchase, material management, planning, finance, administration etc. are also to be provided as per site requirement.
2.8	Field Quality Assurance:
2.8.1	The contractor shall be responsible for day-to-day quality checks for works in line with approved Field Quality Plan (FQP) and Manufacturing Quality Plan (MQP) during the progress of work. All quality records and log sheets shall be maintained as per the requirement of BHEL/CUSTOMER and as per FQP/MQP approved by BHEL/CUSTOMER.
2.8.2	Contractor has to make arrangements for Minimum Testing Facilities to be done on day to day basis. Contractor may also line up with testing facilities available with the working contractors within the project.
2.8.3	Any test necessary for subject work shall be carried out from NCCBM / IITs / NITs / other reputed laboratories approved by CUSTOMER/BHEL.
2.9	HEIRARCHY
2.9.1	<p>In case of any conflict/deviations amongst various documents, the order of precedence shall be as follows:</p> <ol style="list-style-type: none"> 1. Items Description in BOQ Cum Rate Schedule 2. Technical Conditions of Contract (TCC)

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Chapter – III: FACILITIES IN THE SCOPE OF CONTRACTOR/BHEL (SCOPE MATRIX)

3.1	Land/Open Space:-
3.1.1	BHEL shall provide limited open space (free of cost) for installation of crushers, site office, boulder storage area, sand stocking area, loading area, as and where made available by Customer. Availability of land within plant boundary is very limited and the contractor has to plan and use the existing land. It is the responsibility of the contractor to provide all utilities and dismantle and clear the site after completion of work or as and when required, as a part of his scope of work.
3.2	Labour and Staff Colony:
3.2.1	All arrangement and facilities regarding labour and staff is in the scope of contractor.
3.3	Construction Power:
3.3.1	<p>Construction power (three phase, 415 V/ 440 V) will be provided on chargeable basis at one point near the site at a distance of approx. 500M. Further, distribution shall be arranged by the contractor at his own cost and services. If any other voltage level (other than normally available) is required, the same shall be arranged by the contractor from power supply as above. Contractor shall be responsible for fulfilment of all requirements including statutory requirements in this regard.</p> <p>The charges for the actual energy consumed by the bidder (Energy Charges Only) shall be recovered by the BHEL based on prevalent rate of DISCOM and type of connection used.</p>
3.3.2	<p>Contractor shall deploy and install required energy meter, cables, fuses, distribution boards, switchboards, bus bars, earthing arrangements, protection devices and any other installation as specified by statutory authority/act.</p> <p>Contractor shall provide at his own cost necessary calibrated energy meters (tamper proof, suitably housed in a weather proof box with lock & key arrangement) at point of power supply along with calibration certificate from authorized/ accredited agency for working out the power consumption. In case of recalibration required for any reason the necessary charges including replacement by calibrated meters is to be borne by the contractor.</p> <p>Contractor is advised to maintain the calibrated energy measuring instruments and use their system as efficiently as possible to maintain the HT side input energy meter reading and LT side outgoing energy meter reading to sub-contractors as equal. Contractor shall also obtain approvals of appropriate authority and pay necessary fees, levies etc. towards the clearance of such installations, prior to use.</p>
3.3.3	Sufficient power factor compensation equipment like capacitor shall be provided by contractor for reactive loads like welding machines etc. In case of any fine/penalty on account of low power factor, same shall be shared by contractor proportionately according to power consumption.
3.3.4	Contractor shall make necessary arrangements for onward distribution of construction power taking due care of surrounding construction activities like movement of cranes & vehicles, civil work, fabrication/construction/assembly/ erection etc. and safety of personnel. It may become necessary to relocate some of the installations to facilitate work by other agencies or by him.
3.3.5	It shall be the responsibility of the Contractor to provide, maintain the complete installation on the load side of the supply with due regard to the safety requirements at site. All cabling and installations shall comply in all respects with the appropriate statutory requirements. The installation and maintenance of this shall be done by licensed and experienced electrician.

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Chapter – III: FACILITIES IN THE SCOPE OF CONTRACTOR/BHEL (SCOPE MATRIX)

3.3.6	While reasonable efforts will be made to ensure continuous electric power supply, interruptions cannot be ruled out and no claim from the Contractor shall be entertained on this account such as idle labour, extension of time etc. The Contractor shall adjust his working shift accordingly and deploy additional manpower, if necessary, so as to achieve the target.
3.3.7	Contractor shall be well equipped with back-up power supply arrangement like DG set and diesel operated welding machine etc. to tackle situations arising due to failure of supplied power, so as to ensure continuity and completion of critical processes that are underway at the time of power failure or important activities planned in immediate future.
3.3.8	BHEL is not responsible for any loss or damage to the Contractor's equipment as a result of variations in voltage or frequency or interruptions in power supply.
3.3.9	The bidder shall have to maintain proper illumination system during construction right from start of his work. The illumination should be such that minimum illumination requirement as specified by Indian standards for general illumination is maintained.
3.3.10	Supply of electricity shall be governed by Indian Electricity Act and Installation Rules and other Rules and Regulation as applicable. The contractor shall ensure usage of electricity in an efficient manner and the same may be audited by BHEL time to time. In case of any major deviation from normally accepted norms is observed, BHEL will reserve the right to impose penalty as deemed fit for such cases.
3.4	Construction water:
3.4.1	Construction water shall be supplied by BHEL free of cost. Bidder has to make arrangement of further distribution of water at his own cost. No extra payment shall be made under this account.
3.4.2	The Contractor should make arrangements for storage of sufficient quantity of water required for work. The agency should also construct sumps (if required) of suitable size for storage of construction water as per their requirement for use in batching plant and construction purposes.
3.4.3	Contractor to satisfy himself that the water drawn by him is fit for construction / consumption and adequately treat such water at his cost when it is not found fit for the said purposes.

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Chapter – IV: T&PS AND MMES TO BE DEPLOYED BY CONTRACTOR

4.0	Tools and Plants:	
Sl. No.	Description of T&P	Tentative Quantity
4.1	For Manufacturing of Sand/Aggregates	
4.1.1	Crushing Unit minimum 200TPH - III Stage Mobile Crusher with required arrangements for washing, sprinkling of water, screening, etc all complete. (Crusher shall not be older than 3 years from the date of LOA)	1 Set
4.1.2	Dumper	As per requirement
4.1.3	Dozer	As per requirement
4.1.4	Backhoe Loader	As per requirement
4.1.5	Dewatering pump	As per requirement
4.1.6	DG Set of required Capacity	As per requirement
4.1.7	Hydraulic Excavator /Poclain	As per requirement
4.2	T&Ps shown in the above mentioned list is suggestive requirement. However, mobilization schedule as mutually agreed at site for major T&Ps, have to be adhered to. Numbers/time of requirement will be reviewed from time to time at site and contractor will provide required T&Ps/equipment to ensure completion of entire work within schedule/target date of completion without any additional financial implication to BHEL. Contractor will give advance intimation & certification regarding capacity etc. prior to dispatch of heavy equipment. Also on completion of the respective activity, demobilization of T&Ps in total or in part can be done with the due approval of Engineer-In-Charge. Retaining of the T&Ps during the contract period will be mutually agreed in line with construction requirement.	
4.3	The contractor shall arrange crane operator, diesel, petrol and other consumables including electrical / water / air connections required for the tools and plants, equipments etc. Preventive and routine maintenance of T & P are also to be arranged by the contractor at his cost without any delay. Required number of experienced mechanics and helpers for routine maintenance of the above T&Ps shall be provided by the contractor within his quoted rate.	

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Chapter – V: T&PS AND MMES TO BE PROVIDED BY BHEL

5	LIST OF T&P TO BE PROVIDED BY BHEL FREE OF HIRE CHARGES ON SHARING BASIS: BHEL shall not provide any T&Ps for this scope of work. All T&Ps required for handling of items / materials to be arranged by bidder.
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Chapter – VI: TIME SCHEDULE

6	Time Schedule and Mobilization:	
6.1	<p>Initial Mobilization and Time Schedule: After issue of LOA (through Fax/courier/email) the contractor shall report to the Construction Manager/Site In-Charge of BHEL at site within seven (07) days from date of LOA and submit detailed mobilization plan to start work.</p> <p><u>Date of start (DOS) of works shall be reckoned as:-</u> A) Talcher - Date of written intimation/clearance from BHEL. B) Singrauli - Date of Intimation for Release of Crusher from Talcher Site.</p> <p>However, the date of start may be reviewed and changed accordingly by Construction Manager / Site-in-Charge / Project Manager of BHEL with recorded reasons in the KOM (Kick of Meeting).</p>	
6.2	<p><u>Schedule of Completion:</u></p> <p>A) Talcher - 8 months from date of Start of Work B) Singrauli - 24 months from date of Start of Work</p> <p>The entire work under the scope of this contract shall be carried out in such a manner that the following listed major milestones are achieved as per completion schedule given against each activity & materials are supplied to other agency.</p> <p>Only 1(One) set Crusher has been envisaged for both Talcher & Singrauli Site. The Crusher shall initially be mobilised at Talcher Site and after completion of works shall be subsequently shifted to Singrauli Site. BHEL Talcher Site shall ensure effective utilisation of Crusher for manufacturing crushed sand within the stipulated contract period and release the same so that the timelines of Singrauli Project is not affected.</p>	
Sl. No.	Activity	Schedule of completion from Date of Start of work
6.2.1	2x660 MW Talcher Thermal Power Station, Odisha	
6.2.1.1	Mobilisation of Crushers, dumpers, loaders, manpower etc.	Within 20 days from date of Start of Work
6.2.1.2	Installation of Crushers & Start of Production of Crushed Sand/Aggregate - (M1)	Within 45 days from date of Start of Work
6.2.1.3	Completion of Production of 50000T Crushed Sand/Aggregates	Within 4 months from date of Start of Work
6.2.1.4	Completion of Cumulative Production of 100000T Crushed Sand/Aggregates - (M2)	Within 6 months from date of Start of Work
6.2.1.5	Completion of All Supplies	Within 8 months from date of Start of Work
6.2.1.6	Handing over, Reconciliation and cleaning of site	Within 8 months from date of Start of Work

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Chapter – VI: TIME SCHEDULE

6.2.2	2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP	
6.2.2.1	Transportation & Mobilisation of Crushers, dumpers, loaders, manpower etc. after release from Talcher Site.	Within 20 days from date of Start of Work
6.2.2.2	Installation of Crushers and Start of Production of Crushed Sand/Aggregate - (M1)	Within 45 days from date of Start of Work
6.2.2.3	Completion of Production of 120000T Crushed Sand/Aggregates	Within 6 months from date of Start of Work
6.2.2.4	Completion of Cumulative Production of 300000T Crushed Sand/Aggregates - (M2)	Within 12 months from date of Start of Work
6.2.2.5	Completion of Cumulative Production of 450000T Crushed Sand/Aggregates	Within 18 months from date of Start of Work
6.2.2.6	Completion of All Supplies	Within 24 months from date of Start of Work
6.2.2.7	Handing over, Reconciliation and cleaning of site	Within 24 months from date of Start of Work
6.3	The above schedule is only tentative. The above schedule shall be advanced, if there are requirements to advance the project schedule and the civil works in the scope of the contractor is to be advanced to meet the project requirement. No extra payment whatsoever shall be paid on this account.	
6.4	In order to meet the above schedule in general, and any other intermediate targets set, to meet customer/ project schedule requirements, Contractor shall arrange & augment all necessary resources from time to time on the instructions of BHEL Engineer.	
6.5	Intermediate milestones: Two Major Intermediate Milestones are identified as M1 and M2 above.	
Milestones	Activity	Schedule of completion from start of work
6.5.1	2x660 MW Talcher Thermal Power Station, Odisha	
M1	Installation of Crushers & Start of Production of Crushed Sand/Aggregate - (M1)	Within 45 days from date of Start of Work
M2	Completion of Cumulative Production of 100000T Crushed Sand/Aggregates - (M2)	Within 6 months from date of Start of Work
6.5.2	2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP	
M1	Installation of Crushers and Start of Production of Crushed Sand/Aggregate - (M1)	Within 45 days from date of Start of Work
M2	Completion of Cumulative Production of 300000T Crushed Sand/Aggregates - (M2)	Within 12 months from date of Start of Work
6.6	<u>Provision of Penalty in case of slippage of Intermediate Milestones:</u> <u>In case of slippage of Two Major Intermediate Milestones, mentioned as M1 & M2 above, delay Analysis shall be carried out on achievement of each of these two Intermediate Milestones in reference to F-14.</u>	
6.6.1	In case of slippage of these identified Intermediate Milestones, Delay Analysis shall be carried out on achievement of each of these two Intermediate Milestones.	

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6.6.2	<u>In case delay in achieving M1 Milestone is solely attributable to the contractor, 0.5% per week of executable contract value*, limited to maximum 2% of executable contract value, will be withheld.</u>
6.6.3	In case delay in achieving M2 Milestone is solely attributable to the contractor, 0.5% per week of executable contract value*, limited to maximum 3% of executable contract value, will be withheld.
6.6.4	Amount already withheld, if any against slippage of M1 milestone, shall be released only if there is no delay attributable to contractor in achievement of M2 Milestone.
6.6.5	Amount required to be withheld on account of slippage of identified intermediate milestone(s) shall be withheld out of respective milestone payment (corresponding RA Bill) and balance amount (if any) shall be withheld @10% of RA Bill amount from subsequent RA bills.
6.6.6	Final deduction towards LD (if applicable), on account of delay attributable to contractor shall be based on final delay analysis on completion/ closure of contract. Withheld amount, if any due to slippage of identified intermediate milestone(s) shall be adjusted against LD or released as the case may be.
6.6.7	In case of termination of contract due to any reason attributable to contractor before completion of work, the amount already withheld against slippage of intermediate milestones shall not be released and be converted into recovery.
6.7	Common activities shall be completed in Phase wise manner/ Instruction of Engineer within the Contractual time.
6.8	Above milestone dates has to be completed in parallel.
6.9	Bidders are requested to submit Resource deployment plan Area wise with detail program in line with above schedule in the form of Bar Chart/ MS project planer along with their offer.
*	Executable Contract Value - Value of work for which inputs/ fronts were made available to contractor and were scheduled for execution till the date of achievement of that milestone.
6.1	COMPLETION OF WORK AND COMMENCEMENT OF GUARANTEE PERIOD
6.10.1	The works shall be completed to the entire satisfaction of the Engineer and in accordance with the completion schedule as specified in the Contract, and all unused stores and materials, tools, plant, equipment, temporary buildings, site office, labour hutments and other things shall be removed and the site and work cleared of rubbish and all waste materials and delivered up clean and tidy to the satisfaction of the Engineer at the Contractor's expenses.
6.10.2	BHEL shall have power to take over from the Contractor from time to time such sections of the work as have been completed to the satisfaction of the Engineer. Such work however shall not be treated as have been completed until the remaining / pending works are executed to the satisfaction of Engineer.
6.10.3	The Engineer shall certify to the contractor the date on which the work is completed and the date thereof for commencement of Guarantee Period. Guarantee Period shall be as 1 month from the date of completion of supply.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VII: TERMS OF PAYMENT

Z	Terms of Payment:
7.1	Progressive Payment/ Final Payment: The payments for works under the scope of this contract shall be as per clause no 2.6; 2.22; 2.23 of General Conditions of Contract and Volume-IB, Chapter-X of SCC.
7.1.1	<p><u>Documents required for RA Bill:</u></p> <ul style="list-style-type: none"> • GST Complied Invoice of the work done as per approved BBU. • WAM -6 for RA Bill. • Jointly signed Measurement sheet. • Power of Attorney before submission of Bill. • Validity of Bank Guarantees as applicable under the contract. • HR/IR compliance documents: <ol style="list-style-type: none"> i. Wages payment sheet as per applicable minimum wages. ii. Proof of PF contribution submission. iii. Proof of ESI/ WC contribution submission iv. Proof of Bonus payment as per Bonus Act if applicable. v. Proof of EL payment if applicable. vi. Any other statutory document if applicable.
7.1.2	<p><u>Documents required for Final Bill:</u></p> <p>The final bill is drawn as soon as the entire work is completed. From the final amount due, all amounts already claimed up to the previous running account bill will be deducted. It should be ensured that in the final bill the following additional particulars have been provided:</p> <ul style="list-style-type: none"> • Final Bill in WAM-7 Format. • 'No claim' certificate from the contractor. • Clearance certificates where ever applicable viz. Clearance Certificates from Customer, various Statutory Authorities like Labour department, PF Authorities, Commercial Tax Department etc. • Final Material re-conciliation statement duly approved by BHEL. • Indemnity Bond as per prescribed format. • Deviation statement showing the difference between the actuals and as per the contract. • Final Delay Analysis.
7.3	<p>SECURED RECOVERABLE ADVANCES:</p> <p>Interest Free Secured Mobilization Advance as per GCC Clause No. 2.13.1 will be payable under exceptional circumstances on certification of BHEL Construction Manager at Site. Interest Free Mobilization Advance shall be disbursed in specifically mentioned stages of major resource mobilization as specified hereunder:</p>

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VII: TERMS OF PAYMENT

1. For Mobilization and Installation of Batching Plants along with required T&P i.e. Transit Mixers, Silos, Construction Materials (Sand, Aggregate, Admixture etc.)- <u>2.0%</u>
2. For Mobilization of required T&Ps and resources at site to start the work- 1.5%
3. For Installation and Erection of Site Infrastructure by contractor i.e. site office stores etc.- <u>1.5%</u>
Notes:
1. BHEL Site-CM shall be the deciding authority for assessing the admissibility of advance payment to contractor.
2. In case contractor do not fulfil the agreed conditions of payment of 1st mobilization advance, BHEL Construction Manager will have the authority to not allow the 2nd mobilization advance to contractor.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VIII: TAXES AND DUTIES

8	TAXES & DUTIES
8.1	<p>The contractor shall pay all (save the specific exclusions as enumerated in this clause) taxes, fees, license, charges, deposits, duties, tools, royalty, commissions, other charges, etc. which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes/duties, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.</p> <p>However, provisions regarding GST on output supply (goods/service) and TDS/TCS as per Income Tax Act shall be as per following clauses.</p>
8.2	GST (Goods and Services Tax)
8.2.1	<p>GST as applicable on output supply (goods/services) are excluded from contractor's scope; therefore, contractor's price/rates shall be exclusive of GST. Reimbursement of GST is subject to compliance of following terms and conditions. BHEL shall have the right to deny payment of GST and to recover any loss to BHEL on account of tax, interest, penalty etc. for non-compliance of any of the following condition.</p>
8.2.2	<p>The admissibility of GST, taxes and duties referred in this chapter or elsewhere in the contract shall be limited to direct transactions between BHEL & its Contractor. BHEL shall not consider GST on any transaction other than the direct transaction between BHEL & its Contractor.</p>
8.2.3	<p>Contractor shall obtain prior written consent of BHEL before billing the amount towards such taxes. Where the GST laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL shall have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Contractor.</p>
8.2.4	<p>Contractor has to submit GST registration certificate of the concerned state. Contractor also needs to ensure that the submitted GST registration certificate should be in active status during the entire contract period.</p>
8.2.5	<p>Contractor/Vendor has to issue Invoice/Debit Note/Credit Note indicating HSN/SAC code, Description, Value, Rate, applicable tax and other particulars in compliance with the provisions of relevant GST Act and Rules made thereunder.</p>

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VIII: TAXES AND DUTIES

8.2.6	Vendor has to submit GST compliant invoice within the due date of invoice as per GST Law. In case of delay, BHEL reserves the right of denial of GST payment if there occurs any hardship to BHEL in claiming the input thereof. In case of goods, vendor has to provide scan copy of invoice & GR/LR/RR to BHEL before movement of goods starts to enable BHEL to meet its GST related compliances. Special care should be taken in case of month end transactions.
8.2.7	Vendor has to ensure that invoice in respect of such services which have been provided/completed on or before end of the month should not bear the date later than last working day of the month in which services are performed.
8.2.8	<p>Subject to other provisions of the contract, GST amount claimed in the invoice shall be released on fulfilment of all the following conditions by the Contractor: -</p> <ol style="list-style-type: none"> a. Supply of goods and/or services have been received by BHEL. b. Original Tax Invoice has been submitted to BHEL. c. Contractor/ Vendor has submitted all the documents required for processing of bill as per contract/ purchase order/ work order. d. In cases where e-invoicing provision is applicable, vendor/contractor is required to submit invoice in compliance with e-invoicing provisions of GST Act and Rules made thereunder. e. Contractor has filed all the relevant GST return (e.g. GSTR-1, GSTR-3B, etc.) pertaining to the invoice submitted and submit the proof of such return along with immediate subsequent invoice. In case of final invoice/ bill, contractor has to submit proof of such return within fifteen days from the due date of relevant return. f. Respective invoice has appeared in BHEL's GSTR - 2A for the month corresponding to the month of invoice and in GSTR-2B of the month in which such invoices has been reported by the contractor along with status of ITC availability as "YES" in GSTR-2B. Alternatively, BG of appropriate value may be furnished which shall be valid at least one month beyond the due date of confirmation of relevant payment of GST on GSTN portal or sufficient security is available to adjust the financial impact in case of any default by the contractor. g. Contractor has to submit an undertaking confirming the payment of all due GST in respect of invoices pertaining to BHEL.
8.2.9	Any financial loss arises to BHEL on account of failure or delay in submission of any document as per contract/purchase order/work order at the time of submission of Tax invoice to BHEL, shall be deducted from contractor's bill or otherwise as deemed fit.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VIII: TAXES AND DUTIES

8.2.10	TDS as applicable under GST law shall be deducted from contractor's bill.
8.2.11	Contractor shall comply with the provisions of e-way bill wherever applicable. Further wherever provisions of GST Act permits, all the e-way bills , road permits etc. required for transportation of goods needs to be arranged by the contractor.
8.2.12	Contractor shall be solely responsible for discharging his GST liability according to the provisions of GST Law and BHEL will not entertain any claim of GST/interest/penalty or any other liability on account of failure of contractor in complying the provisions of GST Law or discharging the GST liability in a manner laid down thereunder.
8.2.13	In case declaration of any invoice is delayed by the vendor in his GST return or any invoice is subsequently amended/altered/deleted on GSTN portal which results in any adverse financial implication on BHEL, the financial impact thereof including interest/penalty shall be recovered from the Contactor's due payment.
8.2.14	Any denial of input credit to BHEL or arising of any tax liability on BHEL due to non-compliance of GST Law by the Contractor in any manner, will be recovered along with liability on account of interest and penalty (if any) from the payments due to the Contactor.
8.2.15	In the event of any ambiguity in GST law with respect to availability of input credit of GST charged on the invoice raised by the contractor or with respect to any other matter having impact on BHEL, BHEL's decision shall be final and binding on the contractor.
8.2.16	<p><u>Variation in Taxes & Duties:</u></p> <p>Any upward variation in GST shall be considered for reimbursement provided supply of goods and services are made within schedule date stipulated in the contract or approved extended schedule for the reason solely attributable to BHEL. However downward variation shall be subject to adjustment as per actual GST applicability.</p> <p>In case the Government imposes any new levy/tax on the output service/goods after price bid opening, the same shall be reimbursed by BHEL at actual. The reimbursement under this clause is restricted to the direct transaction between BHEL and its contactor only and within the contractual delivery period only.</p>

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VIII: TAXES AND DUTIES

	In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer but before opening of the price Bid, the Bidder/Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of price bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
8.3	Income Tax: TDS/TCS as applicable under Income Tax Act, 1961 or rules made thereunder shall be deducted/collected from contractor's bill.
8.4	BOCW Act & Cess Act
8.4.1	BOCW Cess is not to be borne by contractor. Refer Annexure-I for BOCW Act & Cess Act.

Annexure-I:	
Bidder may please note that the sub-contractor/bidder of BHEL engaging building or construction worker in connection with building or other construction work, are required to follow the procedures enumerated below:	
1.	It shall be the sole responsibility of the contractor as employer to ensure compliance of all the statutory obligations under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder.
2.	It shall be sole responsibility of the contractor engaging Building Workers in connection with the building or other construction works in the capacity of employer to apply and obtain registration certificate specifying the scope of work under the relevant provisions of the Building and Other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 from the appropriate Authorities.
3.	It shall be responsibility of the contractor to furnish a copy of such Registration Certificate within a period of one month from the date of commencement of Work.
4.	It is responsibility of the contractor to register under the Building and other Construction Workers' Welfare Cess Act, 1996 and deposit the required Cess for the purposes of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 at such rate as the Central Government may, by notification in the Official Gazette, from time to time specify. However, before registering and deposit of Cess under the Building and other Construction Workers' Welfare Cess Act, 1996, the contractor will seek written prior approval from the Construction Manager.
5.	It shall be sole responsibility of the contractor as employer to get registered every Building Worker, who is between the age of 18 to 60 years of age and who has been engaged in any building or other construction work for not less than ninety days during the preceding

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VIII: TAXES AND DUTIES

	twelve months as Beneficiary under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996.
6.	It shall be sole responsibility of the contractor as employer to maintain all the registers, records, notices and submit returns under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder.
7.	It shall be sole responsibility of the contractor as employer to provide notice of poisoning or occupation notifiable diseases, to report of accident and dangerous occurrences to the concerned authorities under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the rules made thereunder and to make payment of all statutory payments & compensation under the Employees' Compensation Act, 1923.
8.	It shall be the responsibility of the sub-contractor as employer to make payment/deposit of applicable cess amount on the extent of work involving building or construction workers engaged by the sub-contractor within a period of one month from the receipt of payment. It shall also be responsibility of the Contractor to furnish BHEL on monthly basis, Receipts/ Challans towards Deposit of the Cess under the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder along with following statistics: (i) Number of Building Workers employed during preceding one month. (ii) Number of Building workers registered as Beneficiary during preceding one month. (iii) Disbursement of Wages made to the Building Workers for preceding wage month. (iv) Remittance of Contribution of Beneficiaries made during the preceding month
9.	BHEL shall reimburse the contractor the Cess amount deposited for the purposes of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 under the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder. However, BHEL shall not reimburse the Fee paid towards the registration of establishment, fees paid towards registration of Beneficiaries and Contribution of Beneficiaries remitted.
10.	It shall be responsibility of the Building Worker engaged by the Contractor and registered as a beneficiary under the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 to contribute to the Fund at such rate per mensem as may be specified by the State government by notification in the Official Gazette. Where such beneficiary authorizes the contractor being his employer to deduct his contribution from his monthly wages and to remit the same, the contractor shall remit such contribution to the Building and other construction Workers' Welfare Board in such manner as may be directed by the Board , within the fifteen days from such deduction.

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Chapter – VIII: TAXES AND DUTIES

11.	Bidders may please note that though the quoted price is exclusive of BOCW (which will be reimbursed by BHEL as per sub-clause 9 above) , however, If at any point of time during the contract period, non-compliance of the provisions of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder is observed, BHEL reserves the right to deduct the applicable cess (1%) on the contract value and penalty (if any, imposed by Cess Authorities) from the payables on account of non-compliance.
12.	The contractor shall declare to undertake any liability or claim arising out of employment of building workers and shall indemnify BHEL from all consequences / liabilities / penalties in case of non-compliance of the provisions of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the Building and other Construction Workers' Welfare Cess Act, 1996 and the rules made thereunder.

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-X: TECHNICAL SPECIFICATIONS AND DRAWINGS

VOLUME-III PRICE SCHEDULE, REV-0		
Manufacturing of Crushed Stone Sand from Excavated Rock Boulders inside the plant premises including sorting and feeding of boulders, storage of sand at crusher site, disposal of silt/clay/rejects to the designated site and loading of Sand to the prospective consumer's vehicle from crusher site at 2x660 MW Talcher Thermal Power Station, Odisha and 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP		
SCH-1 : TOTAL PRICE		
SL NO	DESCRIPTION	TOTAL QUOTED PRICE (IN INR) (in figures & in words)
1.0	Manufacturing of Crushed Stone Sand from Excavated Rock Boulders inside the plant premises including sorting and feeding of boulders, storage of sand at crusher site, disposal of silt/clay/rejects to the designated site and loading of Sand to the prospective consumer's vehicle from crusher site at 2x660 MW Talcher Thermal Power Station, Odisha and 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP	/
NOTE		
1	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.	
2	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.	
3	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation. As such total price at sl no 1.0 should be complete in all respect for the full scope defined and considering all terms and conditions.	
4	Bidder to note that percentage break-up of above total price has been done for 2(two) projects: - A) Talcher Project, B) Singrauli Project and indicated in SCH-2. Based on this broad break-up, item-wise percentage break-up of both projects are frozen & indicated in subsequent schedules. Bidder to note based on above break-up and together with break-up in subsequent schedules, if any, separate orders will be placed for (A) Talcher Project Sch-3A (B) Singrauli Project-Sch-3B	
5	Bidder's quoted total price of SCH-1 at Sl. no 1 above shall be apportioned into amount of various items of works based on allocated percentages against respective item of SCH-3A & SCH-3B. As such, bidder shall not indicate/ quote any amount/ rate in these schedules/ parts and any amount/ rate quoted against any item shall not be taken into cognizance/ account and offer may be liable for rejection.	
6	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto 2 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.	
7	Rate shall remain firm for each item. Payment shall be made for the actual quantities of work executed at the quoted unit rate. Bidder to take written permission from BHEL prior to start of supply/erection work	
8	The quantity of items may vary during execution mainly due to actual requirement etc. The quoted unit rates shall remain firm and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.	
9	Evaluation will be done on "Total Quoted Price" in INR.	
10	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.	

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-X: TECHNICAL SPECIFICATIONS AND DRAWINGS

VOLUME-III
PRICE SCHEDULE, REV-0

Manufacturing of Crushed Stone Sand from Excavated Rock Boulders inside the plant premises including sorting and feeding of boulders, storage of sand at crusher site, disposal of silt/clay/rejects to the designated site and loading of Sand to the prospective consumer's vehicle from crusher site at 2x660 MW Talcher Thermal Power Station, Odisha and 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP

SCH-2 : BREAK UP OF TOTAL PRICE

SL NO	DESCRIPTION	PRICE SCHEDULE REF	Weightage
1.0	2x660 MW Talcher Thermal Power Station, Odisha	SCH 3-A	20.374005%
2.0	2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP	SCH 3-B	79.625995%
TOTAL ALLOCATION			100.000000%

NOTE

- | | |
|---|--|
| 1 | Bidder to note based on above break-up and together with break-up in subsequent schedules, if any, separate orders will be placed for (A) Talcher Project -Sch-3A (B) Singrauli Project-Sch-3B |
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TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-X: TECHNICAL SPECIFICATIONS AND DRAWINGS

VOLUME-III PRICE SCHEDULE, REV-0						
Manufacturing of Crushed Stone Sand from Excavated Rock Boulders inside the plant premises including sorting and feeding of boulders, storage of sand at crusher site, disposal of silt/clay/rejects to the designated site and loading of Sand to the prospective consumer's vehicle from crusher site at 2x660 MW Talcher Thermal Power Station, Odisha and 2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP						
SCH-3 : PRICE SCHEDULE						
ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	Rate	Amount	Weightage
A	2x660 MW Talcher Thermal Power Station, Odisha					
1	Mobilisation, installation, commissioning of required Crusher with all arrangements for manufacturing sand, aggregates, etc all complete.	LS	1			1.179486%
2	Manufacturing and Supplying of Crushed Stone Sand as per IS 383 & specifications at crusher site including sorting of boulders at dump yard, breaking & sizing the good quality boulders to the less than 300 mm size & loading and transporting to the crusher plant area from dump yard, feeding the boulders directly to the crushers, crushing, washing, stacking, loading to consumer's vehicle, sprinkling of water for dust suppression, etc all complete as per direction of BHEL	Tonne	175000			18.376742%
3	Manufacturing and Supplying of Crushed Stone (150mm -45mm size) as per specifications at crusher site including sorting of boulders at dump yard, breaking & sizing the good quality boulders to the less than 300 mm size & loading and transporting to the crusher plant area from dump yard, feeding the boulders directly to the crushers, crushing, washing, stacking, loading to consumer's vehicle, sprinkling of water for dust suppression, etc all complete as per direction of BHEL	Tonne	10000			0.817777%
		A	Sub-Total		0.00	20.374005%

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-X: TECHNICAL SPECIFICATIONS AND DRAWINGS

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	Rate	Amount	Weightage
B	2x800 MW Singrauli STPP- Stage-III, Sonbhadra,UP					
1	Transportation(From Talcher to Singrauli), Mobilisation, installation, commissioning of required Crusher with all arrangements for manufacturing sand, aggregates, etc all complete.	LS	1			1.608389%
2	Manufacturing and Supplying of Crushed Stone Sand as per IS 383 & specifications at crusher site including sorting of boulders at dump yard, breaking & sizing the good quality boulders to the less than 300 mm size & loading and transporting to the crusher plant area from dump yard, feeding the boulders directly to the crushers, crushing, washing, stacking, loading to consumer's vehicle, sprinkling of water for dust suppression,etc all complete as per direction of BHEL	Tonne	760000			74.700750%
3	Manufacturing and Supplying of Crushed Stone (150mm -45mm size) as per specifications at crusher site including sorting of boulders at dump yard, breaking & sizing the good quality boulders to the less than 300 mm size & loading and transporting to the crusher plant area from dump yard, feeding the boulders directly to the crushers, crushing, washing, stacking, loading to consumer's vehicle, sprinkling of water for dust suppression,etc all complete as per direction of BHEL	Tonne	40000			3.316856%
		B	Sub- Total		0.00	79.625995%
		A+B	Total		0.00	100.000000%