

Name of Work: Construction of Pile Foundations including Erection of Module Mounting, Structures, Modules and levelling, Garding for 50MW , Solar Power Plant of NTPC , Mandasaur, M.P.(Structures, modules, hardware supply by BHEL)

Sl.No	DESCRIPTION	UNIT	QTY	WEIGHTAGE RATE IN PERCENTAGE %	AMOUNT (Rs)
1	Boring (with DTH etc), providing and installing bored cast-in-situ cement concrete piles of machine batched and machine mixed design mix M-25 grade of specified diameter and length below the pile cap, to carry a safe working load not less than specified, including the cost of boring and concrete, with temporary casing of appropriate length for setting out and removal of same all complete, including removal of excavated earth with all lifts and leads, marking of pile location at site with Total station as per design and drawing of BHEL: 350 mm dia piles (Variable depth Approximately up to 2.00m)	metre	60646	55.64	Bidder neede not fill any price hereThis will be filled populated based on total quated Price
2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level. for top concrete pile cap/ collar of MMS with waterproofing paint, curing etc (DSR:5.33.1)	cum	1801	7.46	
3	Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete. for top concrete/ collar of MMS (DSR:4.3.1)	sqm	11530	1.52	
4	Erection and Alignment of structure legs (Columns) in plumb,as per the Co-Ordinates, Inside pile foundation before concrete complete in all respect including collecting structure material from BHEL STORE unpacking , shifting to work location, disposal of unwanted packing material at identified location (BHEL WILL SUPPLY STRUCTURE MATERIAL AND HARDWARES)	tonne	800	2.82	
5	Erection of Structure material,Assembly to mentioned inclined angle,tightening of accessories using tools at mentioned torque.including collecting structure material from BHEL STORE unpacking , shifting to work location, disposal of unwanted packing material at identified location (BHEL WILL SUPPLY STRUCTURE MATERIAL AND HARDWARES)	tonne	2050	7.23	

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6	Erection of modules, placing, tightening using tools at mentioned torque. . (size approximately 1976 x 996 x 50mm) .including collecting module from BHEL STORE unpacking , shifting to work location, disposal of unwanted packing material at identified location (BHEL WILL SUPPLY MODULE/HARWARE)	no.	168000	3.79	
7	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings any size of girth up to 30 cms measured at a height of 1 m above ground level and removal of rubbish up to a distance of 1500m outside the periphery of the area cleared, with all labour material, tools, tackles and equipments, safeguards and incidentals as necessary, in all types of soil as per drawing, specifications and directions as per Engineer-in-charge.	100 SQM	10500	4.44	
8	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material Beyond 30 cm girth upto and including 60 cm girth	each	200	0.02	
9	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.All kinds of soil(DSR:2.6.1)	cum	19341.5	1.98	
10	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 1500m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.All kinds of soil	cum	19341.5	3.07	
11	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.. Ordinary rock (DSR:2.7.1)	cum	11250	1.76	
12	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 1500 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed. Ordinary rock	cum	11250	2.83	

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13	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.. Hard rock (blasting prohibited)(DSR:2.7.3)	cum	4500	1.74	
14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 1500 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed. Hard rock(blasting prohibited)	cum	4500	2.53	
15	Disposal of surplus excavated material up to 5 km outside the solar plant, including carriage of material by mechanical transport, including, loading unloading and stacking.	cum	30000	3.17	
				100	
TOTAL AMOUNT (RS.)					

Note:

- 1 Bidder Should Fill Total Amount only
- 2 Bidder need not fill any value in amount column, unit prices shall be worked out from the total price as per the percentage given in each item. The rate of each BOQ item shall be rounded off to the nearest price.
- 3 Evaluation Shall be based on total amount.
- 4 Major works involves in this tender are
 - a Boring, pile concreting, MMS structure mounting & associated works.
- 5 The order on the L1 bidder shall be for 40% of each of the BOQ items and on the L2 & L3 Bidder shall be 30% of each of the BOQ items. For detailed mechanism of work distribution, refer NIT.