

<b>TENDER NO. BHEL: NR: SCT: ANPARA D: CIVIL LEV &amp; GRAD: 574</b>					
<b>BILL OF QUANTITIES</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (INR)</b>	<b>AMOUNT (INR)</b>
1	<b>Earth work in stripping of top soil/pond ash</b> upto a minimum <b>depth of 300mm</b> below existing ground level so as to exclude all debris, grass, vegetation, bushes, trees (with girth upto 299mm) including roots and organic materials etc for levelling and grading including dressing to specified levels & grades and compacting the graded/stripped surface by manual or mechanical means, approaches, stacking/ disposal of surplus excavated material within a lead up to 1km etc all complete as per specification, drawing and as directed by the engineer-in-charge.	<b>CUM</b>	<b>46,800</b>		
2	<b>Earth work in excavation for levelling and grading</b> up to any depth in <b>all types of soil including pond ash, laterite, moorum</b> etc which can be excavated by means of shovel, spade, crow bar, pick axe etc but does not require chiselling or blasting including dressing the sides, levelling to grade and ramming/compacting the bottom/excavated exposed surface, stacking/disposal of excavated material <b>within a lead up to 1km etc</b> all complete as per specification, drawing and as directed by the engineer-in-charge.	<b>CUM</b>	<b>1,13,738</b>		
3	<b>Extra over Item No. 1 &amp; 2 for disposal</b> of stripped/excavated material <b>beyond a lead of 1km and up to a lead of 2km.</b>	<b>CUM</b>	<b>90,000</b>		
4	<b>Extra over Item No. 3 for disposal</b> of stripped/excavated material <b>beyond a lead of 2km and up to a lead of 3km.</b>	<b>CUM</b>	<b>40,000</b>		
5	<b>Extra over Item No.4 for disposal</b> of stripped/excavated material <b>beyond a lead of 3km and up to a lead of 5km.</b>	<b>CUM</b>	<b>10,000</b>		

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6	<b>Earth work in filling for levelling and grading using approved quality of pond ash with compulsorily excavated pond ash/earth available within a lead of 1km</b> on prepared surface obtained by compacting with mechanical means including setting out, sorting, breaking clods, re-excavation if required, handling, transportation, spreading, dewatering if necessary, watering, placing/laying in layers not exceeding 250mm loose thickness and compacting each layer in proper moisture content with manual/mechanical means so as to acheive atleast 95% of its maximum dry density obtained as per IS 2720, part-VII, testing including levelling, dressing, finishing to required lines, grades and slopes including all lifts etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	60,000		
7	<b>Earth work in filling for levelling and grading using approved quality of pond ash (pond ash to be given free of cost by the Owner at existing/abandoned ash pond(s) of UPRVUNL Thermal Power Stations within a maximum lead of 3km on as is where is basis)</b> available within a maximum lead of 3km on prepared surface obtained by compacting with mechanical means including setting out, sorting, breaking clods, excavation, handling, transportation, spreading, dewatering if necessary, watering, placing/laying in layers not exceeding 250mm loose thickness and compacting each layer in proper moisture content with manual/mechanical means so as to acheive atleast 95% of its maximum dry density obtained as per IS 2720, part-VII, testing including levelling, dressing, finishing to required lines, grades and slopes including all lifts etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	20,96,887		

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE (INR)	AMOUNT (INR)
8	Earth work in filling for levelling and grading using approved quality of earth/soil (earth/soil to be given free of cost by the Owner within a maximum lead of 3km on as is where is basis) available within a maximum lead of 3km on prepared surface obtained by compacting with mechanical means including setting out, sorting, breaking clods, excavation, handling, transportation, spreading, dewatering if necessary, watering, placing/laying in layers not exceeding 250mm loose thickness and compacting each layer in proper moisture content with manual/mechanical means so as to achieve atleast 95% of its maximum dry density obtained as per IS 2720, part-VII, testing including levelling, dressing, finishing to required lines, grades and slopes including all lifts etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	1,76,517		
9	Providing, stacking and laying 300mm thick hand placed rip-rap on the slopes of earth fill/cut with approved quality of rock fragments, caulking and pointing with 1cement : 4sand mortar including necessary excavation (if any), compaction etc all complete as per specification, drawing and as directed by the engineer.	SQM	22,326		
	<b>PROVIDING AND PLACING CONCRETE INCLUDING COST OF LABOUR, MATERIALS AND EQUIPMENT FOR HANDLING, TRANSPORTAION, BATCHING, MIXING, PLACING, VIBRATING AND CURING (BUT EXCLUDING COST OF CENTERING, SHUTTERING , CEMENT AND REINFORCEMENT) ETC COMPLETE AS PER DRAWING, SPECIFICATION AND AS DIRECTED BY THE ENGINEER-IN-CHARGE FOR THE FOLLOWING.</b>				
10	Concrete of grade M-10 as levelling course below finished floor level, under and around foundations/floors, drains, pits, sumps, encasing guard stones etc at all levels below finished ground level complete.	CUM	333		
11	Concrete of grade M-25 in foundations, under floors and sub-structures etc at all levels at all levels below finished ground level complete.	CUM	1,000		

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE (INR)	AMOUNT (INR)
	<b>Supplying, fixing and removing formwork at any elevation as per drawing, specification and as directed by the Engineer-in-charge including all labour, materials, scaffoldings and providing pockets etc all complete for the following.</b>				
12	Ordinary form work at any level below and above finished ground floor level for foundations, footings, bases of columns, walls, pilasters, beams, mass concrete, trenches etc for unexposed concrete works.	SQM	60,000		
	<b>REINFORCEMENTS</b>				
13	Providing, cutting, straightening, bending, placing at any level below finished ground level, binding in position of high yield strength steel reinforcement bars including cost of reinforcement, binding wire and labour etc all complete as per specification and drawings.	MT	60		
	<b>ROAD WORK</b>				
14	<b>Preparation of sub grade</b> by excavating earth to required depth in all types of soil including ash, dressing to camber and consolidating the base including making good the undulation etc and disposal of surplus earth within a lead upto 1km etc all complete as per specification.	CUM	1,22,796		
15	<b>Earth work in filling for road/embankment using approved quality of soil from borrow areas (borrow areas to be acquired by the bidder at no extra cost to Owner/BHEL)</b> on prepared surface obtained by compacting with mechanical means including setting out, sorting, breaking clods, excavation, handling, transportation, spreading, dewatering if necessary, watering, placing/laying in layers not exceeding 250mm loose thickness and compacting each layer in proper moisture content with manual/mechanical means so as to achieve atleast 95% of its maximum dry density obtained as per IS 2720, part-VII, testing including levelling, dressing, finishing to required lines, grades and slopes including all lifts etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	81,864		

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE (INR)	AMOUNT (INR)
16	Providing, stacking and laying <b>granular morrum</b> for shoulder including watering, compaction with road roller to required level etc complete as per specification.	CUM	5,018		
17	Providing and laying <b>water bound macadam base/sub base course</b> in layers of required thickness with stone aggregates of <b>90mm to 40mm size</b> , stone screenings and binding material moorum including screening, sorting, spreading to template and consolidation/compaction with road roller etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	20,466		
18	Providing and laying <b>water bound macadam base / sub base course</b> in layers of required thickness with stone aggregate <b>63mm to 40mm</b> size, stone screenings and blinding material moorum including screening sorting, spreading to template and consolidation/compaction with road roller etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	13,644		
19	Providing and laying <b>water bound macadam base course in layers of required thickness</b> with stone aggregate <b>50mm to 20mm size</b> , stone screenings and binding material moorum including screening, sorting, spreading to template and consolidation/compaction with road roller etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	6,822		