

BILL OF QUANTITY & PRICE BID FORMAT**Name of the Work: Raising of embankment height for ash pond C & A from RL 208 M to RL 211 M**

Sl. No	Description of Items	Unit	Qty.	Unit Rate	Amount (Rs)
1	Cleaning & grubbing of work areas including uprooting vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, disposal and with all cost, conveyance, T&P, taxes & duties of materials, labour etc. complete as per direction of Engineer-in-charge.	Sqm	47500		
2	Construction of toe drain of specified dimensions at toe of common bund between pond B & C including providing & laying of sand, chips, metal, boulder including cost, conveyance, royalty, taxes of all materials and labour charges etc. complete as per drawing and direction of Engineer-in-charge.	Rmt	900		
3	Lifting of stone rip-rap from up stream slopes of PST of Ash Pond A for jointing with the existing bund of pond 'A' and conveying & stacking th materials within 100m lead as per direction of Engineer-in-charge.	Cum	525		
4	Construction of ash pond embankment by Excavation of ash from Ash Pond by mechanical means loading into and transportation by mechanical means and unloading the ash within initial lead of 3 km on properly prepared and scientifically approved surface including spreading and leveling the earth in 22.5 cm layers to make ready for watering and compaction with Vibratory rollers and dozers including watering earthwork up to OMC condition and compaction by vibratory roller & dozer in layers not exceeding 22.5cm to required density in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road, hire & running charges of all machineries, royalty, taxes and borrow area etc. complete as per the direction of Engineer-in-charge. (measurement of the fill to be taken on the finished compacted section under OMC condition.)	Cum	192679		
5	Formation of embankment by Excavation of any approved type of soil in approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within initial lead of 5 km on properly prepared and scientifically approved surface including spreading and leveling the earth in 22.5 cm layers to make ready for watering and compaction with Vibratory rollers and dozers including watering earthwork up to OMC condition and compaction by vibratory roller & dozer in layers not exceeding 22.5cm to required density in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road, hire & running charges of all machineries, royalty, taxes and borrow area etc. complete as per the direction of E.I.C. (measurement of the fill to be taken on the finished compacted section under OMC condition.)	Cum	124267		

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6	Embankment raising by watering ash/earth up to OMC condition and compaction by vibratory rollers and dozer in layers not exceeding 25 cm to required density including hire and running charges of all the machineries complete as per direction of Engineer-in-charge (Measurement to be taken on the finished compacted section of the fill under OMC condition)	Cum	316946		
7	Supplying and spreading sand of approved specification on compacted surface of earth dam or dykes for filter blanket and other horizontal filter zone to proper thickness including surface dressing within initial lead complete as per direction of Engineer-in-charge.	Cum	27040		
8	Supplying and filling sand of approved specification in vertical chimney to proper line & level using removable sheet metal separators up to designed height of filter chimney within initial lead as directed by the Engineer-in-charge.	Cum	11830		
9	Excavation of compacted Ash/Earth for vertical sand chimney and connecting sand blanket to sand chimney including trimming of slopes and depositing the excavated materials away from site within an initial lead of 1 Km as per direction of Engineer-in-charge.	Cum	17907.50		
10	Fine dressing and turfing in position with compact dub grass and ramming with thapies including cost, conveyance, taxes and labour charges etc. complete as per direction of Engineer-in-charge.	Sqm	93065		
11	Collecting, stacking and conveying from stack and spreading moorum consolidation with PRR including hire and running charges of PRR & turfing, watering etc. complete as per direction of Engineer-in-charge.	Cum	4533		
12	Providing and laying reinforced cement concrete R.C.C (1:1.5:3) using 12 mm size hard granite crusher broken chips including watering, curing, cost, conveyance, royalties, taxes of all materials required for the work etc. complete as per direction of Engineer -in-charge.	Cum	25		
13	Rigid and smooth centering and shuttering for R.C.C works including false works and dismantling them after casting including cost of materials, conveyance, taxes and labour charges etc. all complete as per direction of Engineer-in-charge.	Sqm	200		
14	Supplying, cutting, bending & binding and placing TMT reinforcement in position of required dia as per drawing including cost of materials, conveyance, taxes, labour, etc. all complete as per direction of Engineer-in-charge.	Qntl	22		

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Sl. No	Description of Items	Unit	Qty.	Unit Rate	Amount (Rs)
15	Supplying, fabrication and erection of all type of mild steel iron work for all type of structures, sheds, grills, doors, fencing posts ash pond approach bridge etc. with approved quality (SAIL or TISCO make) steel structural, angles, channels, plates, of all sections at all levels and elevations, painting with 02 coats of High gloss enamel paint over a coat of red oxide primer including all cost of materials, conveyance, taxes, labour charges, T&P, scaffoldings etc. complete in all respect as per the direction of the Engineer-in-Charge.	MT	7		
16	Dismantling and shifting of existing 350 NB MS pipe from RL 205 M to RL 211 M including excavation of earth and Shifting and placing in position of the concrete support pedestals for rerouting of ash disposal pipeline.	Mtr	3400		
17	Dismantling and shifting of existing 200 NB MS pipe line as per site requirement and Shifting from RL 205 M to RL 211 M and placing in position of the concrete support pedestals for rerouting of ash disposal pipeline as per instruction of EIC	Mtr	1500		
18	Erection, welding and positioning of 200 NB MS Pipeline (dismantled and stored at site vide item no. 16) including supply fabrication and installation of pipe support clamps etc. all complete as per instruction of EIC.	MTR	1500		
19	Supply of 350NB 9.5mm thickness M.S ERW pipe.	MTR	1440		
20	Fabrication, Erection and welding in position of 350NB M.S pipe including supply and installation of support pedestals pipe clams etc. all complete as per direction of EIC.	MTR	4840		
21	Supply of 600 NB 9.533 thickness M.S ERW pipe	MTR	80		
22	Erection & welding of 600NB M.S ERW pipe including all fittings and raising spindle etc. all complete as per direction of EIC.	MTR	80		
23	Painting of two coats of synthetic high gloss enamel paint of any approved colour shed of appcolite paint over a coat of primer with all cost of materials, conveyance, labour etc. all complete.	Sqm	3300		
24	Supply of 600NB flanged type butter fly valve both side flange type & with gear box hand operated of L&T make with all accessories etc. complete including materials conveyance loading unloading etc.	Nos	2		
25	Erection of 600NB butter fly valve with raising spindle & hand wheel operated of reputed make suitable for ash water medium with all cost of labour etc. all complete as per direction of EIC	Nos	2		

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Sl. No	Description of Items	Unit	Qty.	Unit Rate	Amount (Rs)
26	Erection of existing 350NB manually operated knife-edge gate valve for bottom & fly ash medium after shifting of pipe line to different elevation and position.	Nos	16		
27	Ash brick masonry in cement mortar(1:6) in foundation and plinth for all type of works of all thickness including all cost, splays cutting, watering, curing, conveyance, T & P, Scaffoldings, royalties, taxes & Duties of all materials and labour charges etc. complete as per direction of Engg.-in-charge. (Ash brick will be supplied from Ash Brick Plant of OPGC free of cost. Contractor has to arrange his own conveyance for transportation to Site)	Cum	243		
28	Ash bricks 23cm. Size pitching on flat including filling the interstices with sandy soil including all cost, conveyance, T & P, royalties, taxes of all materials required for the work & labour charges etc. complete as per the direction of Engineer-in-charge.	Sqm	5535		
29	Cement concrete(1:3:6) using 12 mm graded hard granite crusher broken chips including all cost, laying of concrete watering, curing, conveyance, T & P, royalties, taxes of all materials required for the work , Scaffolding & labour charges etc. complete as per the direction of Engineer-in-charge.	Cum	40.50		
30	Providing and Laying of 1.0mm thick HDPE Geo membrane sheet both side plain/smooth and having minimum 7.0 mtr width rolls and the liner materials shall be supplied with a 125mm film along the longitudinal edges. HDPE sheet to be manufactured by FLAT CAST EXTRUSION PROCESS and product to meet or exceed GRI GM-13 standards with thickness tolerance of +/- 5% and as per the detailed technical specification given in the tender. Installation of Geo membrane including storage, handling, unrolling, laying, welding, testing, all cost of materials, labour, T&P, Taxes etc complete as per the detailed specification given in the tender and as per direction of Engineer-in-charge.	Sqm	270000		
31(a)	Providing & laying stone protection of D/S slope of common bund between Pond B & C including rock toe using the following filter materials of approved quality and of specified size including cost, conveyance, royalty,taxes of all materials and labour charges etc.complete as per drawing and direction of Engineer-in-charge. a) 200 mm thick sand	Cum	774		
31(b)	Providing & laying stone protection of D/S slope of common bund between Pond B & C including rock toe using the following filter materials of approved quality and of specified size including cost, conveyance, royalty,taxes of all materials and labour charges etc.complete as per drawing and direction of Engineer-in-charge. b) 100 mm thick hard granite chips 20mm down size	Cum	369.80		

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SI. No	Description of Items	Unit	Qty.	Unit Rate	Amount (Rs)
31(c)	Providing & laying stone protection of D/S slope of common bund between Pond B & C including rock toe using the following filter materials of approved quality and of specified size including cost, conveyance, royalty,taxes of all materials and labour charges etc.complete as per drawing and direction of Engineer-in-charge. c) 100 mm thick hard granite metal 40mm to 20 mm size	Cum	352.60		
31(d)	Providing & laying stone protection of D/S slope of common bund between Pond B & C including rock toe using the following filter materials of approved quality and of specified size including cost, conveyance, royalty,taxes of all materials and labour charges etc.complete as per drawing and direction of Engineer-in-charge. d) 300 mm size hard granite stone	Cum	1827.50		
TOTAL VALUE IN INR (EXCLUDING GST)					
GST SHALL BE EXTRA AT ACTUALS, APPLICABLE % ALONG WITH SAC CODE TO BE INDICATED IN YOUR PRICE BID					