

<b>BILL OF QUANTITY</b>					
<b>Name of Project:</b>		<b>400/110kV Substation at Thappagundu</b>			
<b>Name of Work:</b>		<b>Construction of Approach Road &amp; Graveling</b>			
<b>Sr.No.</b>	<b>Particulars</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
2	supplying and spreading machine broken 20 mm HBG metal including cost of all materials labour, lead, lift etc., complete.	m3	8000		
3	Supplying and Filling with quarry rubbish for the road portion including cost of all materials lead lift etc. complete	m3	100		
4	Supplying and Filling with gravel as base course over the filled quarry rubbish area including cost of all materials lead lift consolidation etc. complete	m3	500		
5	Providing granular surface 250mm thickness compacting with 40mm - 22mm graded metal including cost of conveyance of all materials from approved quarry and consolidation by power roller as per clause 401 of MORTH specification	m3	2450		
6	Providing laying spreading and compacting 200mm graded stone aggregate (45-22.40mm graded metal and 22.4-2.36 mm graded metal) to wet mix macadam specification including premixing the materials with water at OMC in mechanical mix plant transport of mixed materials by tipper to site laying in uniform layers in sub base /base course on well prepared surface and compacting with vibratory roller to achieve the desired density	m3	1980		
7	Providing and laying tack coat over WMM surface using 6 kgs of bitumen emulsion for 10 sqm.area including labour charges for preparing the surface and applying the required quantity of bitumen as tack coat by bitumen sprayer etc., complete as per 502 of MORTH specification	m2	10000		
8	Providing and laying tack coat over WMM surface treated with prime coat using 2.5 kgs of bitumen emulsion for 10 sqm.area including labour charges for preparing the surface and applying the required quantity of bitumen as tack coat by bitumen sprayer etc., complete as per 502 of MORTH specification	m2	10000		
9	Providing and laying 50mm thick bituminous macadam using 0.42 cum of 26.5-11.2mm graded metal and 0.10cum of 11.2-2.8mm graded metal and 0.1cum 2.8 mm and below metal with 38 kg of bitumenous for premixing per 10 sqm including cost and conveyance of all materials to work site and stacking them on road side to departmental metric gauge for premeasurement, heading the bitumen in bitumen boiler, heading the aggregates and hot mix plant, spreading the mix after mixing them with bitumen in required grade and compaction by 80-100 KN power roller including labour charges hire charges for machaneries and other tools and plants etc., complete as per specification	m2	10000		
10	Providing and laying premix carpet with seal coat type 'A' for 20 mm thickness using 0.18 cum of 13.2 mm IRC HBG metal and 0.09 cum of 11.2 mm IRC metal with 14.6 kgs of bitumen for pre mixing 10 sqm of pre mix carpet and 0.09 cum of 6.7 mm IRC HBG metal with 9.8 kg of bitumen for seal coat type -A per 10sqm including cost and conveyance of all materials to work site and stacking them on road side to departmental metric gauge for premeasurement, heading the bitumen in bitumen boiler, heading the aggregates and semi hot mix plant for premix carpet rolling by 80-100 KN for premix carpet and seal coat separately including labour charges spreading the mix for premix carpet,application of bitumen for seal coat separately over premix carpet coat etc., including labour charges hire charges and fuel charges for mini hot mix plant, bitumen boiler, power roller and other tools and plants deployed etc., complete as per standard specification	m2	10000		
11	Supplying and fabricating and placing in position of MS/RTS steel reinforcement for RCC works including labour for cutting, bending, tying and fixing in position as per specification including cost of all materials, lead, lift, labour, cost of binding wire, etc., complete.	MT	1		
15	Providing RCC heavy duty pipe (NP3) across road crossing including cost of collar pipe as directed by department engineer at site for cable crossing and stormwater drainage including all materials leads and lifts etc., complete				

<b>BILL OF QUANTITY</b>					
<b>Name of Project:</b>		<b>400/110kV Substation at Thappagundu</b>			
<b>Name of Work:</b>		<b>Construction of Approach Road &amp; Graveling</b>			
<b>Sr.No.</b>	<b>Particulars</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
a	300 mm dia	RM	100		
b	150 mm dia	RM	100		
15	Supply and laying of 100 mm dia GI pipe B Class including cost of materials labour, lead and lift etc. complete.	RM	50		
16	RR masonry in CM 1:5 using random rubble stone including cost of all materials leads and lifts etc. complete.	m3	600		
17	Plastering with CM 1:3 12 mm thick for wall sides including cost of all materials labour etc complete	m2	300		
18	Earth work excavation for DRAIN in stiff clay, stiff black cotton, red earth,shales,murram gravel,stone earth and earth mixed with small size boulders and hard gravelly soil and depositing on bank with initial lead of 10m and lift of 2m etc., complete.	m3	700		
21	Antiweed treatment in yard as per specification (BHEL/Tustomer representatives shall visit the horticulture department and ask for the chemical to be used to eradicate the weed in region. As per manufacturer recommendations the chemical shall be sprayed in yard). Antiweed treatment includes supply of chemical, spraying in yard along with manpower spray machine & water etc complete.	m2	80,000		
<b>TOTAL AMOUNT (Rs.)</b>					