

# **TENDER SPECIFICATION**

**NO: BHE/PW/PUR/MANUT-CVL (Levelling & Grading)/1446**

**Leveling, Grading and Road Work up to Water Bound Macadam Level including Excavation, Backfilling, filling with borrowed soil and/or Morrum, disposal of unserviceable earth and all associated works, complete as per specification of entire Plant Area.**

**AT**

**4x270 MW BHADRADRI TPS, MANUGURU**

**TELANGANA STATE**

## **VOLUME- II PRICE BID SPECIFICATION**



**Bharat Heavy Electricals Limited**  
*(A Government of India Undertaking)*  
Power Sector - Western Region  
345-Kingsway, Nagpur-440001

ST. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE IN FIGURE (IN Rs.)	RATE IN WORDS (IN Rs.)	AMOUNT (IN Rs)
<b>LEVELLING &amp; GRADING</b>						
1	<b>Cutting of trees having girth more than 300 mm</b> measured at a height of 1m above ground level including removal of roots, stacking the serviceable material like trunks, branches etc at specified area within the plant boundary and disposal of unserviceable parts/materials within a lead upto 1km etc all complete.	EACH	400			
2	<b>Earth work in stripping</b> of top soil upto a maximum <b>depth of 0.30m</b> below ground level so as to exclude all debris, grass, vegetation, bushes, trees having girth upto 300mm including roots and organic materials etc for leveling and grading including dressing to specified levels & grades and compacting the graded/stripped surface by manual/mechanical means, disposal of stripped materials within a <b>lead upto 1km</b> etc all complete as per specification, drawing and as directed by the engineer-in-charge.	Sq.m	1,650,000			
3	Earth work in excavation upto any <b>depth below ground level</b> in <b>all types of soil</b> including moorum, ash which can be excavated by any means for grading including setting out, levelling, dewatering (wherever required), dressing the sides & bottom, levelling to grade, all lifts, ramming/compacting the excavated bottom/graded surface, stacking/disposal of surplus excavated materials within a <b>lead upto 1km</b> , spreading/levelling of disposed materials etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	2,215,725			
A 8	<b>Earth work in filling</b> upto any depth below ground level for grading to proper grade and level in layers <b>not exceeding 250mm loose thickness</b> with selected approved soil <b>directly from excavation</b> within a lead upto 1km and compacted as specified including dewatering if required, sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tending etc all complete as per specification, drawing and as directed by the engineer for the following.					
a	Each layer compacted so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VIII)	CUM	443,675			
10	Extra over ST No. 2 and 3 for carriage of all types of excavated earth/selected materials beyond the initial lead of 1 km (initial lead, loading and unloading included in item 2 and 3) all complete as per specifications, drawings and instructions of the engineer for					
a	Carriage beyond initial lead of 1 km or part thereof but not exceeding 2 km	CUM	553,931			
b	Carriage beyond 2 km or part thereof but not exceeding 3 km	CUM	553,931			
c	Carriage beyond 3 km or part thereof but not exceeding 4 km	CUM	221,573			

d	Carriage beyond 4 km or part thereof but not exceeding 5 km	CUM	110,786			
e	Carriage beyond 5 km or part thereof but not exceeding 6 km	CUM	110,786			
f	Carriage beyond 6 km or part thereof but not exceeding 7 km	CUM	110,786			
g	Carriage beyond 7 km or part thereof but not exceeding 8 km	CUM	110,786			
h	Carriage beyond 8 km or part thereof but not exceeding 9 km	CUM	110,786			
i	Carriage beyond 9 km or part thereof but not exceeding 10 km	CUM	110,786			
A11	<b>Earth work in filling</b> upto any depth below ground level for grading to proper grade and level in layers <b>not exceeding 300 mm loose thickness with approved borrowed soil</b> (borrowed <b>good soil suitable for filling</b> , to be arranged by the bidder) and compacted as specified including supplying boorrowed soil, royalty (if any), sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing, <b>all lead and lifts</b> etc all complete as per specification, drawing and as directed by the engineer for the following.					
a	Each layer compacted so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VIII)	CUM	168,000			
A11X	<b>Supplying and filling</b> upto any depth below ground level for grading to proper grade and level in layers <b>not exceeding 300 mm loose thickness with Granular Morrurum</b> (Granular Morrurum to be arranged by the bidder) and compacted as specified including royalty/seignorage fee (if any), sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing, <b>all lead and lifts</b> etc all complete as per specification, drawing and as directed by the engineer for the following.	CUM	72,000			
<b>2400 ROAD WORKS</b>						
<b>Providing Road Work including necessary material, labour, machinery, transportation etc as per specification, drawing, relevant IRC &amp; IS codes and as directed by the Engineer-in-charge for the following.</b>						
2401	<b>Preparation of sub grade</b> by excavating earth to required depth for all types of soil/ rock, dressing to camber and consolidating the base including making good the undulation etc and disposal of surplus earth within a lead upto 1 km etc. all complete.	CUM	62203			

2402	Supplying and <b>filling with selected good earth</b> of approved quality in layers not exceeding <b>300 mm loose thickness</b> using borrowed soil (borrowed soil to be arranged by the bidder) and compacted so as to achieve at least 95 % maximum dry density as per IS-2720 (Part-VII) including royalty, sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing etc all complete.	CUM	9207		
2402X	<b>Supplying and filling</b> upto any depth below ground level for grading to proper grade and level in layers <b>not exceeding 300 mm loose thickness</b> with <b>Granular Morrurum</b> (Granular Morrurum to be arranged by the bidder) and compacted as specified including royalty, sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing, <b>all lead and lifts</b> etc all complete as per specification, drawing and as directed by the engineer for the following.	CUM	4603		
2403	Providing, stacking & laying <b>granular morrum</b> for shoulder including watering, compaction with road roller to required camber etc all complete.	CUM	2629		
2404	Providing & laying <b>water bound macadam sub base course</b> of <b>total thickness 150mm, should be laid in two layers of 75mm thick each</b> , with crushed stone aggregates 90 to 40 mm down size, stone screening & blinding material including screening, sorting, spreading to template & consolidation with road roller including carriage, spreading & consolidation of blinding material moorum etc all complete.	CUM	11522		
2405	Providing & laying <b>water bound macadam base course</b> of <b>total thickness 150mm, should be laid in two layers of 75mm thick each</b> , with stone aggregate 63mm to 40mm size, stone screening and blinding material including screening sorting, spreading to template and consolidation with road roller including carriage, spreading and consolidation of blinding material moorum etc all complete.	CUM	13672		
<b>TOTAL VALUE FOR THE PACKAGE OF LEVELING &amp; GRADING INCLUDING ROAD WORKS (In figures) =</b>					
<b>TOTAL VALUE FOR THE PACKAGE OF LEVELING &amp; GRADING INCLUDING ROAD WORKS (In Words) =</b>					