**Schedule - ' B '**

**Schedule of Jobs for Cable Laying from Turamdih plant to Talsa Sub-Station including erection and commissioning of switches etc.**

| Sl. No. | Description | Qty. | Unit | Rate (in Rs.) | | Amount (in Rs.) |
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| | | | | in figures | in words | |
| 1 | Laying of 6.6KV (UE) grade / 11KV (E) grade XLPE/PVCA 'Al' cable of size 3/3.5 Core 120/150/185 sq. mm.in cable trays in cable trenches /cable trays on surface with supply of clamps (maximum 1m interval), huts & bolts and other required hardwares. (Note: Contstruction of cable trench and fabrication of cable trays not in the above scope ) | 900 | Mtrs | | | |
| 2 | -DO - in underground trench at 750mm deep x 450 mm wide in single tier formation including trench excavation & back filling with bricks (15 bricks/m) & sand protection, route marker, etc with supply of bricks & sand (quality of sand and bricks to be approved by UCIL). GI pipes and hume pipes shall also be supplied and used in place of road crossing and cable rising from underground. This cable shall be laid on hilly area between Turamdih plant and Talsa pump house area..<br>(Note: This includes the cable laying through hume pipe in underground where soil condition is bad and road crossing is required ) | 520 | Mtrs | | | |

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| 3 | -DO - in underground trench at 1m deep x 450 mm wide in single tier formation including trench excavation & back filling with bricks (15 bricks/m) & sand protection route marker, etc with supply of bricks & sand (quality of sand and bricks to be approved by UCIL). GI pipes and hume pipes shall also be supplied and used in place of road crossing and cable rising from underground.<br>(Note: This includes the cable laying through hume pipe in underground where soil condition is bad and road crossing is required ) | 200 | mtrs | | | |
| 4 | Termination 6.6KV, XLPE /PVC cable of size 3C/3.5C x 185/150 sq. mm. including supply of kit ('PUSH ON' type, Reychem make heat shrinkable kit to be supplied by the bidder) | 6 | Nos. | | | |
| 5 | Supply & fabrication of Mild steel structure i.e. channel, angle, making of cable trays as per requirement ,chequered plate for covering open trenches etc. of required size (This job is not considered for making of two pole and four pole structures) | | | | | |
| a. | Supply | 0.5 | tons | | | |
| b. | Fabrication<br>(Note: Extra steel shall be supplied by UCIL) | 1 | tons | | | |

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| | (Note: for channel ISMC 75, 100, 125, 150 and for angle 65 x 65 x 8, 50 x 50 x 6, 40 x 6 to be considered for chequered plate 6/8/10 mm. to be considered however exact size will be decided at the time of carrying out jobs and as per requirement.) | | | | | |
| 6 | Supply & laying of 50 x 6 mm GI flat for earthing. This including supply of all hardwares, trench excavation, back filling etc. to complete the job. | 50 | Mtrs | | | |
| 7 | Laying of above cables(HT and LT cable) through hume pipe where soil condition is bad and road crossing is required. One cable shall be laid through single hume pipe for HT cables and 300 sq.mm LT cables or as per instruction of engineer incharge. Hume pipe size:150 mm diameter (internal) : Thickness 15mm to 20 mm ( This has to be approved by UCIL before use.) | 300 | Mtrs | | | |
| 8 | Supply and erection of triple pole ,outdoor type GOAB OFF load break isolator with all accessories of rating 400Amps,6.6 KV/11KV 3 pole ,50 HZ. This also includes connection/tapping of ACSR DOG conductor from main line (on four pole structure ) to GOAB switch with binding of conductor on pin insulators. | 3 | No. | | | |

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| 9 | Obtaining statutory clearance from Electrical inspector/CEA for energising the HT system/ equipmentsof the substation.preparparation of of necessary drawings,equipment list measurement of earth resistance and all the relevant test certificate etc shall have to beprepared by the bidder. (Note: Only statutory fees will be paid by UCIL). 1 No. for WTP S/Station job and 1 No. for HT switch gear installed at Turamdih S/Station | 2 | Lot | | | |
| 10 | Erection of the following raile pole structure, 12.8M long, approx. 105 lbs/yds rail pole, complete with sole plate and set in cement concrete (1:2:4) foundation including painting (1 coat red oxide and two coats synthetic enamel grade class-1 paint) and as per IE rules<br>( **Note** : 01 set of double pole shall be made to convetrt existing double pole structure to four pole structure) | | | | | |
| | Double raile pole structure (105 lbs/yds rai | 2 | Sets | | | |
| 11 | Supply and erection of following accessories on four rail pole structure as per relevant IE rules ( This job is for convertion of two pole to four pole structure) | 1 | Set | | | |
| a. | Angle and channel members for cross bracing (angle size - 65x65x8, channel size - ISMC - 75) | | | | | |
| b. | Channel members (channel size - ISMC 100) & glav. MS tie strip for cross arms | | | | | |

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| c. | Anti climbing device | | | | | |
| d. | EI danger/caution board | | | | | |
| e. | Number plate | | | | | |
| f. | Necessary GI nuts, bolts, washers, GI clamp etc. | | | | | |
| 12 | Supply and erection of follwing accessories on double rail pole structure as per relevant IE rules | 1 | Set | | | |
| a. | Angle and channel members for cross-bracing (angle size- 65x65x8, channel size- ISMC-75) | | | | | |
| b. | Channel members (channel size - ISMC 100) for cross arms and Glv. MS TIE strips | | | | | |
| c. | Anti climbing device | | | | | |
| d. | EI danger/caution board | | | | | |
| e. | Number plate | | | | | |
| f. | Necessary GI bolts and nuts, GI clamps etc. | | | | | |
| 13 | Supply and erection of stay set for support of steel rail pole including all civil & mechanical items | 16 | Sets | | | |
| 14 | Supply and erection of HT pin insulator complete with pin, nuts & washers on the V-bracket/ four rail pole/two rail pole structure.( Note:This job shall be considered to be completed with item Sl. No. 18) | 12 | Sets | | | |
| 15 | Supply and erection of brown-glazed, clevis 7 tongue type HT size disc insulator with strain clamp on cross arm members of double/four rail pole structure (1 set = 3 nos. for R, Y, B phases)(Note: This job shall be considered to be completed with item Sl. No. 18) | 1 | Set | | | |

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| 16 | Supply and erection of HT post type insulators complete with accessories on four pole structure ( 01 set = 3 nos. for R, Y, B phases) ( Note:This job shall be considered to be completed with item Sl. No. 18) | 3 | Sets | | | |
| 17 | Supply and installation 32mm dia, 2.5M long MS rod electrode for earthing rail poles | 6 | Nos. | | | |
| 18 | Erection, testing & commissioning of the following ACSR conductors. This includes all interconnections among overhead equipment S&F of conductor jointing, tapping accessories, dinging, sagging, pin, winding, safety devices, cradle guards, jumping of insulators & survey pegging. The alignment of O/H line, submission of the working drg. indicating the selected route, span length, type of supports etc. for approval by owner's engineer. | 15 | R.Mtrs (1R.Mtr = 1Mtr. of Y, R & B ph) | | | |
| i. | ACSR 'DOG' conductor | | | | | |
| 19 | Straight through jointing of 6.6KV, XLPE cable as per following size including supply of kit. Cable size:185/150 sq. mm. | 4 | Nos. | | | |

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| 20 | Errection of VVF drive / PDB panel of average approx. dimension: H=2100/1500mm., W=830/1200 mm., D= 660mm. Panels shall be errected on elevated base frame (For easy cablre entry from bottom side of the panels) made from channel ISMC 100,125,150 and this base frame shall be fabricated by the bidder with item Sl. No. 13a indicated above for fabrication of Mild steel structure .<br>Note: Panels shall be errected as per existing style of errected panels in VVFD panel rooms and our existing MCC rooms.. | 1 | No. | | | |
| | | | | | **Total (in Rs.) =** | |

**Note: The above rates shall be inclusive of prevailing service tax as per service tax act and rules. 50% of prevailing service tax will be deducted by the UCIL and remaining 50% shall be the bidder's liability.**

**Total (in words):**