

Volume -II

Schedule of Items						
Construction of Road, Drain, Culverts and Associated civil works for main approach road for Development of P4 Block of NTPC 1x50 MW Solar Photo Voltaic Project at Mandasuar, M.P.						
Item No. (A)	DESCRIPTION (B)	UNIT (C)	QUANTITY (D)	RATE (E)	AMOUNT (Rs) (F)	WEIGHTAGE RATE IN PERCENTAGE (%) (G)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed All kinds of soil	cum	1990.00	Bidder need not fill any price here. This will be filled (populated) based on total quoted Price	Bidder need not fill any price here. This will be filled (populated) based on total quoted Price	3.12
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed Ordinary rock	cum	3284.00			7.90
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed Hard rock (blasting prohibited)	cum	436.00			2.60
4	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil	cum	3653.33			1.53
5	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. Ordinary or hard rock	cum	5668.00			4.27
6	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller to achieve 95% or more of standard proctor's MDD, including making good the undulations etc. and re rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	sqm	3300.00			2.76
7	Banking excavated earth/ moorum in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes to achieve 95% or more of standard proctor's MDD and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 500 m and lift upto 1.5 m (All kinds of soil)	cum	5480.00			12.04
8	Construction of granular sub-base by providing close graded/coarse graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30.	cum	495.00			11.64
9	Supplying and stacking at site. 63 mm to 45 mm size stone aggregate	cum	198.00			2.64
10	Supplying and stacking at site. 53 mm to 22.4 mm size stone aggregate.	cum	148.50			2.14
11	Supplying and stacking at site. Stone screening 11.2 mm nominal size (Type B)	cum	71.28			1.23
12	Supplying and stacking at site. Moorum (binding material)	cum	35.64			0.27
13	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density.	cum	346.50			1.38
14	Providing and applying tack coat using hot straight run bitumen of grade VG-10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications : On W.B.M. @ 0.75 Kg / sqm	sqm	1980.00			0.96

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15	2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of stone chippings of 13.2 mm size and 11.2 mm size respectively per 100 sqm. and 52 kg. and 56 kg. of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete: (tack coat to be paid for separately).With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53-1999.	sqm	1980.00			4.00
16	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling and finishing with road roller all complete.	sqm	1980.00			1.47
17	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)	cum	15.00			0.66
18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) Or Design mix as per instruction of Engineer-in-charge	cum	80.00			4.37
19	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in. cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	5280.00			26.69
20	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	100.00			4.93
21	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level.	cum	9.00			0.57
22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars.	kg	720.00			0.54
23	Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns, cover slabs etc. for mass concrete	sqm	90.00			0.18
24	Centering and shuttering including strutting, propping etc. and removal of form for : Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	sqm	50.00			0.17
25	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platforms	sqm	50.00			0.19
26	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 600 mm dia. R.C.C. pipe	meter	14.00			0.18
27	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 900 mm dia. R.C.C. pipe	meter	24.00			0.49
28	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 1200 mm dia. R.C.C. pipe	meter	26.00			0.85
29	Carriage and disposal of excavated earth/surplus earth as per site condition/requirement as per direction of Engineer-in -charge. including loading, unloading and stacking up to 5 KM	cum	150.00			0.23
Total=						100.00
TOTAL AMOUNT OF WORKS (Rs.) in figures						
TOTAL AMOUNT OF WORKS (Rs.) in words						
Note:						
1	Bidders should quote only the (Total Amount) both in figures & words in the specified place. They should not fill/quote/write anything in col. (E) & (F). These rates & amount will be derived based on total quoted rates and corresponding weightage rates for individual line items shown in col. (G).					
2	Evaluation Shall be based on Total Amount.					