

1st on A/c bill

Name of work - 1

Situation of work

Agency by which work is executed

Date of measurement -

and date of agreement

These items should be repeated at the commencement of the measurements relating to each work

Particulars	Details of actual measurement				Comments observed
	No	L	B	D	
Name of the road - PWD Sadak					
(Sikatiya Paigambarpur)					
Airtel Tower ke Pass se					
caron khat tak					
Name of Agency - Sandeep Kumar					
Agreement no & date - 28 SBD/2018-19					
Date of start of work - 11/10/2018					
Date of completion - 10/10/2019					

Measurement

1. ~~Setting out~~ clearing
and grubbing Road
Land (by manual means)

as per technical specification
and direction of E/I

$$5'00 \times 3'5 = 1750 m^2$$

$$\frac{1750 m^2}{10000} = 0.175 \text{ Hectare}$$

2. Excavation for roadwork
in soil with hydraulic
excavator of 0.9 cum
bucket capacity -

Continuation

10..5

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
as per technical specification					
A. Be side of BES for provision of flexible Road					
					$2 \times 200 \times 0.525 \times 0.1 = 21.0 \text{ m}^3$
(B) Be side of BES for provision of Rigid Road					
					$2 \times 300 \times 0.375 \times 0.1 = 22.50 \text{ m}^3$
					Total A+B = 43.50 m^3

3. construction of Embankment with material obtained from borrow pits with a lift

upto 1.5 m - -

as per technical specification

(A) For 1000 m lead

$$2 \times 8 \times 25 \times 1.2 \times 0.4 = 192 \text{ m}^3$$

Limit to 171.00 m^3

(B) For 100 m lead

$$2 \times 12 \times 25 \times 1.2 \times 0.6 = 432 \text{ m}^3$$

Limit to 399.0 m^3

(4) construction of subgrade and earthen shoulders with approved material

do - - -

as per technical specification

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(A) Earthen shoulder for flexible ^{Rigid} road					
Adjacent to WBM					
$2 \times 200 \times 1.025 \times$					
$2 \times 300 \times 0.450 \times 0.075 = 20.25 \text{ m}^3$					
Adjacent to GSB					
$2 \times 300 \times 0.675 \times 0.1 = 40.50 \text{ m}^3$					
Total					60.75 m ³

(5) construction of granular sub-base by providing well graded material spreading in uniform layers as per technical specification.

GSB in widening					
$2 \times 300 \times 0.375 \times 0.10 = 22.50 \text{ m}^3$					
For levelling course					
$1 \times 9.5 \times 3.0 \times 0.1 = 2.85 \text{ m}^3$					
$1 \times 9 \times 3.0 \times 0.1 = 2.70 \text{ m}^3$					
Total					28.05 m ³
Limit to					27.90 m ³

For extra widening

(6) on curve					
$2 \times 10 \times 0.09 \times 0.1 = 0.18 \text{ m}^3$					
$2 \times 10 \times 0.09 \times 0.1 = 0.18 \text{ m}^3$					
$2 \times 5 \times 0.09 \times 0.1 = 0.09 \text{ m}^3$					
					0.45 m ³
Total					$27.90 + 0.45 = 28.35 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑥ WBM gr-II					
Providing, laying, spreading and compacting stone aggregates of specific size - do - as per technical specification					
					$12 \times 25 \times 3.75 \times 0.075 = 84.375 \text{ m}^3$
For extra widening on curve					
					$2 \times 10 \times 2.5 \times 0.09 \times 0.075 = 0.3375 \text{ m}^3$
					0.675 m^3
					Total 85.05 m^3

⑦ Construction of un-reinforced, doweled jointed at expansion and construction joint only, plain cement concrete - do - as per drawing and Technical specification					
					$12 \times 25 \times 3.75 \times 0.160 = 180.0 \text{ m}^3$
For extra widening					
					$2 \times 10 \times 2.5 \times 0.09 \times 0.160 = 1.44 \text{ m}^3$
					Total 181.44 m^3

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑧ H.P. culvert 600mm dia					
(i) Excavation					
(a) Head wall					
	2	4.15	1.40	1.47	$= 17.08 \text{ m}^3$
(b) V/S Apron					
	1	3.85	1.16	0.60	$= 2.68 \text{ m}^3$
(c) D/S Apron					
	1	3.85	2.00	0.60	$= 4.62 \text{ m}^3$
	1	3.85	0.60	0.30	$= 0.69 \text{ m}^3$
(d) Bedding					
	1	5.78	1.07	0.25	$= 1.55 \text{ m}^3$
					<u>Total</u> 26.62 m^3

(ii) Bedding					
in pcc m-15					
	1	5.78	0.22		
	1	5.78	1.07	0.55	$= 3.40 \text{ m}^3$
Deduction					
for pipe Embedment					
	1	5.78	0.22		$= \ominus 1.270$
					<u>Total</u> 2.13 m^3

(iii) pcc m-15 in					
open foundation					
	2	3.85	1.40	0.15	$= 1.62 \text{ m}^3$

(iv) Head wall in brick					
masonry 1:1:4					
(a) Head wall					
	2	3.85	0.825	2.005	$= 12.74 \text{ m}^3$
(b) parapet					
	2	3.85	0.60	0.410	$= 1.85 \text{ m}^3$

less ($\pi \times r \times r \times \text{width} \times 2 \text{ No.}$)					
	2	0.465	0.61		$= \ominus 0.57 \text{ m}^3$
					<u>Total</u> 14.02 m^3

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(v) Providing and laying pipe NP3 600 mm dia $3 \times 2.50 = 7.50 \text{ m}$					
(vi) Plastering with cement mortar 1:4					
(a) Parapet side $4 \times 3.85 \times 1.0 = 15.4 \text{ m}^2$					
(b) Parapet Faces $4 \times 0.4 \times 0.50 = 0.80 \text{ m}^2$					
(c) Parapet Top $2 \times 3.85 \times 0.40 = 3.08 \text{ m}^2$					
(d) Headwall sides $2 \times 3.85 \times 0.60 = 4.62 \text{ m}^2$					
					total 23.90 m ²
					Limit to 14.02 m ²
(9) Setting out pillars					
(a) Providing & fixing of bench mark — do — 1 NB.					
(B) Reference pillar — 2 NB.					
(10) Providing and fixing of typical masonry					
Informative sign board					
citizen information board and maintenance board — 3 NB.					
g.singh 10/08/2019 J.K. Singh Lahori					
RP Sm 25-9-2020 Lahori					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Abstract of cost</u>					
1. clearing and grubbing road land -					
do -					
Ant = 0.175 Hectare.					
vide TMB Page (1)					
item - (1)					
@ Rs 48772.70/hect					
				2 Rs	8535 =
2. Excavation for roadwork in soil with - do -					
3. Flexible road					
Ant = 43.50 m ³					
vide TMB page - (2)					
item - (2)					
@ Rs 77.65/m ³ - Rs					3378 =
3. const of embankment with material obtained -					
do -					
4. For 1000 m length					
Ant = 171.0 m ³ vide					
TMB page - (2) item - (3)					
@ Rs 155.64/m ³ = Rs					26614 =
5. For 100 m length					
Ant = 399 m ³					
@ Rs 134.82/m ³ = Rs					53793 =

Continuation

C/O Rs 92320 =

P.T.O

Particulars	Details of actual measurement			Contents of area
	No.	L	B	

(4) const. of calgrade
and earthen shoulder

- do -

Qnt = 60.75 m³

vide TMR page - (3)

item - (4)

@ Rs 157.38/m³ = Rs 9561=

(5) const. of granular

subbase by providing

- do -

Qnt = 27.90 m² 28.35 m³

vide TMR page - (3)

item - (5)

@ Rs 2896.93/m³ =

Rs 82128=

(6) WBM gr - III

Qnt = 85.05 m³

vide TMB page - (4)

item - (6)

@ Rs 3930.97/m³ =

Rs 334329=

(7) const. of unreinforced

plain cement concrete

- do -

Qnt = 181.44 m³

vide TMB page - (4)

item - (7)

@ Rs 7725.81/m³ = Rs 1401771=

Continuation

G/O Rs 1920109=

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑧ H.P Culvert					
(i) Excavation					
amt = 26.62/m ³					
vide TMB Page-5					
item - ⑧					
@ Rs 254.55/m ³ = Rs 6776 =					
⑨ (i) Bedding in pccm-15					
(ii) amt = 14.02 2.13m ³					
vide TMB Page-5					
item - 8(ii)					
@ Rs 386.68/m ³ = Rs 824 =					
(iii) Pccm-15 in					
open trench					
amt = 14.02 1.62m ³					
vide TMB Page-5					
item - 8(iii)					
@ Rs 5955.33/m ³ = Rs 9648 =					
(iv) Head wall in					
brick masonry					
(1:4)					
amt = 14.02 m ³					
vide TMB Page-5					
item - 8 (iv)					
@ Rs 5636.13/m ³ = Rs 79018 =					
(v) Providing and					
Laying Pipe					

Continuation
 M.P-3 - C/O Rs 2016375:
 P.T.A

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
600mm dia					
- - do - -					
Qnt = 7.50 m					
vide TMB Page (6)					
item - 8(V)					
@ Rs 1576.10/m =					
				Rs	11821 =

(vi) Plastering with

cement mortar

1:4

- - do - -

Qnt = 14.02 m²

vide TMB

Page - (6) item

8(VI)

@ Rs 158.95/m² =

Rs 2228 =

(9) setting out pillars

(A) Benchmark

Qnt = 1 No. vide

TMB Page - (6)

item - (9) A

@ Rs 3912.58/No =

Rs 3913 =

Rs 3913 =

(B) Reference pillar

Qnt = 2 No.

vide TMB Page - (6)

item - (9) (B)

Continuation

c/b 2034337:

P.T.O

Sch. XLV-Form No. 134 B/R 2034337

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
@ Rs 1808.12/NO					
					= Rs 3616-
(10) Providing and fixing of typical masonry in formwork					
do do do					
Qty = 3 m vide					
TMB Page - (6)					
item - (1)					
@ Rs 9742.59/NO					
					= Rs 29228-
Total Rs					2067181-

Gsingh
10/08/2019
JE
Lahlaapur

RPSM
25-9-2020
AE
Lahlaapur

(Signature)
08/09/20

Continuation