

Himachal Pradesh
Public Works Department
PW-RD-GA-Tender-2021-22- 19027
To

dated:- 7/3/022

The Executive Engineer (IT Cell)
Nigam Bihar, Shimla-2.

Subject: - Tender notice.

Enclosed please find herewith the tender notice of work as given in the notice inviting tender for uploading on department website as per notification Pr. Secy. (PW) to the Govt. of H.P. letter N. PBW (B) A (3) 1/2020 dated Shimla-2 the 16th July 2021.

1. Certified that the tender mentioned in the notice is exigencies/emergency are urgent nature and in public interest.

DA:- Notice inviting tender & schedule of quantity.


Executive Engineer,
B&R Division, HPPWD,
Rohru. 

**Himachal Pradesh
Public Works Department
"NOTICE INVITING TENDERS"**

Sealed item rate tender on form PWD 6&8 are invited by the Executive Engineer Rohru Division HPPWD, on behalf of Governor of H.P. for the following works from the approved and eligible contractors enlisted in HPPWD, So as to reach in this office as per time schedule given below:-

1. Date of receipt of applications for tender forms:- 14-03-2022 upto 1:30PM
2. Date of issue/sale of tender forms:- 14-03-2022 upto 2:00PM to 5.00PM
3. Date of receipt of tender:- 15-03-2022 upto 10:30AM
4. Date of opening of tender:- 15-03-2022 upto 11:00AM

Sr.No.	Name of Work.	Estt. Cost.	E/Money	Time.
1	Improvement of Black Spot on Tutu Pani Kuthari to Deoli road km 0/0 to 22/0 (SH:- C/O R/wall at RD 17/834 to 17/839)	Rs.475837/-	Rs.9500/-	2 month
2	R/R damages on Machoti Padda Nallah Dalgaon road km 0/0 to 8/0 (SH:- C/O R/wall at RD 3/357 to 3/400)	Rs.365465/-	Rs.7200/-	2 month
3	Improvement of Black Spot Under various road under Rohru S/D (SH:- Providing and Supplying of high intensity Engineering grade prismatic tape/sheeting) (Allocation Rohru Sungri Road)	Rs.493500/-	Rs.10000/-	1 month
4	A/R & M/O of tank Stand for Housing Board at Samala (SH:- C/O 2 No tank stand for flat No 29 & 30)	Rs.451717/-	Rs.9100/-	2 month
5	R/R Damages to various road Samoli Section Sub-division Rohru (SH:- Hiring of for removal of slips/snow maintenance of road)	Rs.252000/-	Rs.5100/-	2 month
6	A/R & M/O Samoli Parsa road km 0/0 to 7/0 (SH:- Clearance of drain cutting branches and shrubs and maintenance of culvert between km 0/0 to 7/0)	Rs.299379/-	Rs.6000/-	2 month
7	C/O Link road Bhajudhar to Kewladhar via Mohan Lal Parisar km 0/0 to 3/500 (SH:- C/O R/wall in wire crate at RD 0/0 to 0/030)	Rs.436913/-	Rs.9000/-	2 month
8	A/R & M/O Rohru Arhal Bashla road km 0/0 to 8/0 (SH:-C/O removal of rubbish)	Rs.211829/-	Rs. 4200/-	1Month
9	R/R damages on Rohru Arhal Bashla road km 0/0 to 12/0 (SH:-C/O B/wall in PCC at RD 8/320 to 8/345)	Rs.326713/-	Rs.6500/-	2month
10	R/R Damages to various road Under Summerkot Section Sub-division Rohru (SH:- hiring of JCB for removal of slips and land slide, maintenance of road)	Rs.126000/-	Rs.2600/-	1 month
11	R/R of Snow/rain damages on various road under Tikkar S/D (sheelghat Section) hiring of JCB removal of snow/land slide drain cleance of opening of culvert filling depression of berms)	Rs.498000/-	Rs.10000/-	2 month
12	R/R of Snow/rain damages on various road under Tikkar S/D (sheelghat Section(1) hiring of JCB removal of snow/land slide drain cleance of opening of culvert filling depression of berms)	Rs.498000/-	Rs.10000/-	2 month
13	R/R of Snow/rain damages on various road under Tikkar S/D (sheelghat Section (2) hiring of JCB removal of snow/land slide drain cleance of opening of culvert filling depression of berms)	Rs.498000/-	Rs.10000/-	2 month
14	R/R damages on Udho Niwas Jakhar road (SH:- C/O R/wall at RD 3/800 to 3/820)	Rs.499638/-	Rs.10000/-	2 month
15	C/O Link road Pujarli Panmesri to Dunana Dagri km 0/0 to 2/0 (SH:-P/L Kharanja stone soling at RD 0/240 to 0/480)	Rs.458167/-	Rs.9200/-	2 month
16	Improvement of Black Spot Jagothi Nallah Andrewthi road km 0/0 to 6/0 (SH:-widening of road at RD 0/985 to 1/045 & 2/075 to 2/225)	Rs.430588/-	Rs.9000/-	2 month
17	C/O Link road Todsa to H.B. Limbra km 0/0 to 2/0 (SH:-C/O F/C 5/7 mtr wide road at RD 1/0 to 1/150)	Rs.462672/-	Rs.9300/-	2 month
18	C/O Link road to Village Barara km 0/0 to 1/0 (SH:-C/O B/wall at RD 0/0 to 0/020)	Rs.370460/-	Rs.7400/-	1month
19	Repair and maintenance of Sub Division office at Chirgaon (Je , SDC & Clark room). (SH:- P/F Wood panel. PVC Ceilling and Polish work etc.)	Rs.494688/-	Rs.10000/-	2month
20	Repair and maintenance of Sub Division Office at Chirgaon. (SH:- P/F Wood panel , PVC Ceiling and polish work etc.)	Rs.487862/-	Rs.10000/-	2month
21	A/R & M/O sewerage work behind S.E Residance and Staff Quarter (SH:-C/O Chambar and PVC pipe)	Rs.495339/-	Rs.10000/-	2month
22	R/R Damages to Machoti Paddanallah road 0/0 to 9/0 Sub-division Rohru (SH:- hiring of JCB for removal of slips and maintenance of road)	Rs.126000/-	Rs.2600/-	1month
23	R/R damages to Bhaloon Kainchi kui road km 0/0 to 14/0 (SH:- R/wall in PCC 1:4:8 at RD 4/325 to 4/366.50)	Rs.457730/-	Rs.9100/-	2month
24	Missing CD Tutu Pani Nalaban road km 0/0 to 5/500 (SH:-C/O 900mm HPC at RD 1/750)	Rs.468399/-	Rs.9400/-	2month

Certified that the tender mentioned in the notice is exigencies/emergency are urgent nature and in public interest.

Terms and conditions:-The tender document shall be issued only to these contractors/firms who fulfill the following criteria and submit the following document with the application.

1. The Earnest-money for the above works should be submitted with the application for the purchase of the tender documents.

2. The Contractors should quoted the rates of all the items in the tenders both in figures and words.
3. Income tax & GST No latest clearance certificate.
4. The contrs / firm shall accompany his enlistment/renewal & EPF submit before the award of tender.
5. The contractors should apply for two works only at a time for tenders.
6. The Executive Engineer reserves the right to accept/rejected any tender/application or all tenders without assigning any reason.

Executive Engineer,
B&R Division, HPPWD,
Rohru.

Dated:- 7/3/22

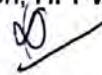
NO.: PW-RD-GA.-Tender/2021-22--

Copy forwarded for information and wide publicity to:-

1. The Chief-Engineer(S), HPPWD, Shimla-2.
3. The S E 14th Circle HPPWD, Rohru
4. All the E.E.'s under 14th Circle, HPPWD, Rohru
5. All the A.E.'s working under this Division (B&R).
6. The Sub Divisional Magistrate, Rohru.
7. The B.D.O. Rohru and Chirgaon.
8. The Tehsildhar, Rohru/Chirgaon and Tikkar.
9. The Chairman, N.A.C. Rohru.
10. A/B. and D/B. in this Office.
11. Notice-Board.

Executive Engineer,
B&R Division, HPPWD,
Rohru.





DRAFT SCHEDULE OF QUANTITY

Estimated Cost 4,75,837/-
 Earnest Money 9600/-
 Time 2 Months

Name of Work:- Improvement of Black Spot on Tutu Pani Kuthari to Deoli road k.m. 0/0 to 22/00 (SH:- C/O R/Wall at R.D. 17/834 to 17/839)

Sub-head and Item of works.	Quantity	Rate in figures	Rate in words	Unit.	Amount
1. Excavation in soil in Hilly Area in all kind of sand by mechanical means including cutting and trimming of side slopes and disposing of excavated earth with a lift upto any lead and lift as per Technical Specification Clause 1603.1 and as per HPPWD specification of 1990 Volume-I or as directed by the Engineer-In-Charge	38.53			Per cubic meter	
2. Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a any lead and lift, dressing of sides and bottom and backfilling in trenches with excavated suitable material useful material available from excavation to be properly stacked and handed over to the department free of cost including all leads and lifts as per HPPWD specification of 1990 volume-I or as directed by the Engineer-In-Charge	30.60			Per cubic meter	
3. Providing and Laying concrete concrete 1:6:12 (1cement: 6 sand: 12 graded stone aggregate 40mm nominal size) for plain reinforced concrete in open foundations complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 including all leads and lifts as per HPPWD specification of 1990 volume-I or as directed by the Engineer-In-Charge	6.35			Per cubic meter	
4. Providing and Laying concrete concrete 1:4:8 (1cement: 4 sand: 8 graded stone aggregate 25mm nominal size) in open foundations complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 including all leads and lifts as per HPPWD specification of 1990 volume-I or as directed by the Engineer-In-Charge	5.35			Per cubic meter	
5. Random rubble masonry stone masonry (un-coursed/brought to courses) with hard stone of approved quality in foundation in cement mortar 1:6 (1cement: 6 sand) complete as per drawing and technical specifications Clauses 702, 704, 1202 & 1203 including all leads and lifts, or as per HPPWD Specification of 1990 Volume-I, as directed by the Engineer-In-Charge	43.10			Per cubic meter	
6. Construction of dry rubble masonry for retaining walls, breast walls, revetment walls and parapets etc. for sub-structure and super structure complete as per drawing and technical specification clauses 704.6 & 1302.5 including all leads and lifts as per HPPWD, specification of 1990 volume-I as directed by the Engineer-In-Charge	49.78			Per cubic meter	
7. Back filling behind retaining wall, abutment wing wall and return complete as per drawing and technical specification as directed by the Engineer-In-Charge	4.58			Per cubic meter	
				Total	

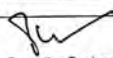
Executive Engineer
 B&R, Divn HP.PWD
 Rohru.

SCHEDULE OF QUANTITY

Estimated Cost 3,65,465/-
 Earnest Money 7600/-
 Time 2 Months

Name of Work:- R/R Damages on Machoti Padda Nallah Dalgaon road k.m. 0/0 to 8/00 (SH:- C/O R/wall at R.D. 3/375 to 3/400)

Sub-head and item of works.	Quantity.	Rate in figures.	Rate in words.	Unit.	Amount.
1 Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a any lead and lift, dressing of sides and bottom and backfilling in trenches with excavated suitable material useful material available from excavation to be properly stacked and handed over to the department free of cost including all leads and lifts, as per HPPWD, specification of 1990 volume-I or as directed by the Engineer-In-Charge	26.25			Per cubic	
2 Providing and Laying concrete concrete 1:6:12 (1cement 6 sand 12 graded stone aggregate 40mm nominal size) for plain/reinforced concrete in open foundations complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 including all leads and lifts, as per HPPWD, specification of 1990 volume-I or as directed by the Engineer-In-Charge	8.68			Per cubic	
3 Random rubble masonry stone masonry (un-coursed/brought to courses) with hard stone of approved quality in foundation in cement mortar 1:6 (1cement 6 sand) complete as per drawing and technical specifications Clauses 702, 704, 1202 & 1203 including all leads and lifts, or as per HPPWD, Specification of 1990 Volume-I, as directed by the Engineer-In-Charge	64.69			Per cubic	
4 Back filling behind abutment wing wall and return complete as per drawing and technical specification or as directed by the Engineer-In-Charge	7.50			per cubic metre	


 Executive Engineer
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SCHEDULE OF QUANTITY						
Name of work:- Improvement of Black Spot Under various road under Rohru S/D (SH:- Providing and Supplying of high intensity Engineering grade prismatic tape/sheeting) (Allocation Rohru Sungri Road)						
			Estimated Cost. Earnest Money Time		493500/- 10000/- 2 month	
Sr No	Sub Head/items of work.	Qty	Rate in figures	Rate in words	Unit.	Amount
1	Providing and Supplying of high intensity Engineering grade prismatic sheeting on the front side of existing W metal beam crash barrier size 300mm x 450mm in yellow and white colour at site within all leads and lifts and as per the direction of Engineer-in-Charge.	470.00			Per running Meter	


 Executive Engineer,
 B&R Division, HPPWD.,
 Rohru.

Schedule of Qty						
					Estimate Cost	451717
					Earnest Money	9100.00
					Time	Two Month
Name of Work:- A/O & M/O of tank Stand for Housing Board at Samala (SH:- C/o two No tank Stand for flat No 29& 30)						
Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount
1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. in ordinary rocks up to 3 mtr depth	12.00			cum	
2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:1:3:6 (1 cement : 3 coarse sand) : 6 graded stone aggregate 20 mm nominal size)	8.75			cum	
3	Steel work welded in built up sections, trusses and framed work, including cutting hoisting fixing in position and applying a priming coat of red lead paint including carriage of materials within all leads and lifts :-In gratings, framed, guards, bars ladders and railing, brackets and similar works including carriage of material within all leads and lifts as per direction of Engineer-in-charge.	3040.41			Kg	
	Total					

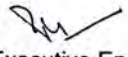

 Executive Engineer
 B&R Division HPPWD
 Rohru

SCHEDULE OF QUANTITY

Name of work:- R/R damages to various road Samoli Section Rohru S/D (SH:- hiring of JCB for removal of slip and snow maintenance of road)

Estimated Cost.
Earnest Money
Time 252000/-
5100/-
45 days

Sr No	Sub Head/items of work.	Qty	Rate in figures	Rate in words	Unit.	Amount
1	Hiring of JCB (Excavator-cum-Loader) having bucket capacity & 45 cum including P.O.L charges, shifting charge and other ancillary equipments with in all leads and lifts as directed by Engineer incharge Min. 18.00Cum of earth shall be done by machine in one Hours , shall be deducted accordingly . J.C.B. shall be deployed for dressing of burms shoulders, clearance of drain ,culvert , removal of excess soil from road surface filling up of pot holes with suitable materials from borrow pits and removal of slips where ever on the road surface with in all leads and lifts as directed by Engineer In charge.	30.00			cum	
	Total					


 Executive Engineer,
 B&R Division,HPPWD.,
 Rohru.

SCHEDULE OF QUANTITY

Estimated cost R299379/-*

Expenditure money Rs5950/-

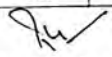
Time :- One Month

Name of work : - A/R & M/O Samoli Parasa road km 0/0 to 7/0 (SH-clearance of drain cutting branches and shrubs and maintenance of culvert between km 0/0 to 7/0.

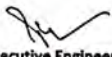
Sr No.	Sub-head and Item of works.	Quantity.	Rate in figures.	Rate in words	Unit.	Amount
1	Maintenance of earthen shoulder filling with fresh selection soil making up loss of material on shoulder to the design level by adding fresh approved selected soil and compacting with appropriate equipment by OMC upto a length 1000 m as per technical specification within all leads and lifts as per directions of Engineer in charge	1588.57			per square metre	
2	Maintenance of culvert maintenance of humper pipe culverts of cleaning cleaning erosion repair to coaks prepared wall and protection work as per drawing and technical specification clause 1908 within all leads and lifts as per directions of Engineer in charge	16.0			Nos	
3	Cutting of branches of trees and trimming of grass and weeds of branches trees and shrubs from the way with in ROW including of wood and levels suitable location as per technical specification clause 1914 as per directions of Engineer in charge	350.00			Nos	
4	Cleaning and grubbing road land including uprooting wild vegetation, grass bushes, shrubs and trees of girth up to 300mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials to be used or auctioned, upto a length of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201 within all leads and lifts as per directions of Engineer in charge	1.80			per hect.	
5	Maintenance of drain the maintenance of drain erosion repair cleaning clearing reshaping regarding deepening of side drain and as well as catch water drain as per technical specification 1907 within all leads and lifts as per directions of Engineer in charge	6000.0			per running metre	

Executive Engineer
B&R Division HP.PWD

SCHEDULE OF QUANTITY						
					Estimate Cos	4,36,913/-
					Earnest Mond	8800/-
					Time	2 Month.
Name of Work:- C/O Link road Bhajnudhar to kewaldhar Via Mohan Lal Parisar k.m. 0/0 to 3/500 (SH:- C/O R/Wall in wire crate at R.D. 0/0 to 0/030)						
Sr. No	Sub-head and item of works.	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Excavation in soil in Hilly Area in all kind of sand by mechanical means including cutting and trimming of side slopes and disposing of excavated earth with a lift upto any lead and lift as per Technical Specification Clause 1603.1 and as per HPPWD, specification of 1990 Volume I, or as directed by the Engineer-In-Charge.	25.20			Per Cum.	
2	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a any lead and lift, dressing of sides and bottom and backfilling in trenches with excavated suitable material useful material available from excavation to be properly stacked and handed over to the department free of cost including all leads and lifts, as per HPPWD, specification of 1990 volume-I or as directed by the Engineer-In-Charge	23.45			Per Cum	
3	Providing and laying of boulder apron laid in wire crates with 4 mm dia GI wire conforming to IS 280 and IS 4826 in 100 mm x 100 mm mesh (woven diagonally) including 10 per cent extra for laps and joints laid with stone boulders weighing not less than 25 kg each as per drawing and technical specifications Clause 1301 or as directed by the Engineer-In-Charge	140.62			Per Cum	
4	Back filling behind retaining wall abutment wing wall and return complete as per drawing and technical specification or as directed by the Engineer-In-Charge	18.00			Per Cum	
					Total	


 Executive Engineer
 B&R Divn. HP.PWD
 Rohru.

SCHDUEL OF QUANTITY						
			Estimated Cost	211829/=		
			Earnest Money	4300/=		
			Time	2 Month		
Name of Work :- A/R & M/O Rohru Arhal Bashla Road km 0/00 to 8/00 (SH :-C/o removal of rubbish.)						
Sr.No.	Item of work	Quantity	Rate	Rate in words	Unit	Amount
1	Clearing and grubbing road land inclding uprootingwild vegetation ,grass ,bushes,shrubs,saplings and trees of girth upto 300mm,removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned,upto a lead of 1000m inculding removal and disposal of top organic soil not exceeding 150mm in thinkness as per Technical Specification Clause 201.	2.84			Hect	
					Total	

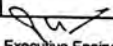

 Executive Engineer,
 B&R Divn. HP-PWD,
 Rohru.

SCHEDULE OF QUANTITY

Estimated cost Rs326713/-
 Earnest money Rs6500/-
 Time :- Two Months

Name of work :- R/R damage on Rohru Arhal Bashala road km 0/0 to 12/0(SH-C/O B/wall in PCC at Rd 8/320 8/345)

Sr No.	Sub-head and Item of works.	Quantity.	Rate in figures.	Rate in words	Unit.	Amount
1	Excavation in soil Hill area including cutting and trimming of side slopes and disposing of Excavated earth with a lift upto 1,5 metre a lead upto 20 metres as per drawing and technical specification clause 1603.1 with in all leads and lifts as per directions of Engineer in charge	24.75			per cubic metre	
2	Eath in excavation for structure as per drawing and technical specification clause 305.1 n including setting out construction of shoring and bracing removal of strumps and other deleterious materious and disposal upto a lead of 50m dressing of side and bottom and backing filling in trenches with excavated suitable materials within all leads and lifts as per drierctions of Engineer in charge	18.00			per cubic metre	
3	Plain reinforcement concrete (1:3: 6)in open foundation complete as per drawing and technical specification clasue within all leads and lifts as per directions of Engineer in charge	55.50			per cubic metre	


 Executive Engineer
 B&R DiVision HP.PWD
 Rohru

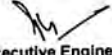
SCHEDULE OF QUANTITY

Estimate Cost 126000.00
Earnest Money 2000.00
Time 15 Days.

Name of work :- R/R damage to Various Road Under Rohru Sub Division (Summerkot Section)

(SH:-Hiring of JCB for removal of slip and land slide, Maintenance of road)

Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Hiring of J.C.B(Excavator-Cum-Loader) having bucket capacity .50 cum including P.O.L charges, shifting charges and other ancillary equipments ,with in all leads and lifts as directed By Engineer Incharge Min. 18.00 Cum of earth shall be done by Machine in one Hours , shall be deducted accordingly. J.C.B shall be deployed for dressing of burms shoulders , clearance of drain , culvert, removal of excess soil from road surface filling up of pot holes with suitable materials from borrow pits and removal of slips where ever on the road surface with in all leads and lifts as directed by Engineer In charge .	15 days			Per day	


Executive Engineer,
B&R Division HPPWD,
Rohru.

SCHUELDE OF QUANTITY

Estimate Cost 498000.00
Earnest Money 10000.00
Time Two month

Name of work:- Restoration of snow /rain damages on various road under Tikkar sub Division (sheelghat section)Hiring of JCB
removal of snow /land slide drain cleance of opening of culvert filling depression of berms..

Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Hiring of JCB (Excavato cum loader)having bucket capacity 50m cum inculding shifting charges and other ancillay by Engineer in charge in 18.00 m ducted accordingly JCB be delpoyed by dressing of berms shoulder clearance of drain culverts removal of exess soil from road surace filling pot holes wtih suitabel materials fromm borrow pits and removal of slips wherere ever on the road surface within all leads and lifts as per directions of Engineer in charge	60.00			per day	
	Total				Total	

Executive Engineer
B&P Divn HP.PWD
Rohit

SCHUELDE OF QUANTITY

Estimate Cost 498000.00

Earnest Money 10000.00

Time Two month

Name of work:- Restoration of snow /rain damages on various road under Tikkar sub Division (sheelghat section) Hiring of JCB removal of snow /land slide drain cleance of opening of culvert filling depression of berms..

Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Hiring of JCB (Excavato cum loader)having bucket capacity 50m cum inculding shifting charges and other ancillay by Engineer in charge in 18.00 m ducted accordingly JCB be delployed by dressing of berms shoulder clearance of drain culverts removal of exess soil from road surace filling pot holes wth suitabel materials fromm borrow pits and removal of slips wherere ever on the road surface within all leads and lifts as per directions of Engineer in charge	60.00			per day	
	Total				Total	

Executive Engineer
B&R Divn HP.PWD
Rohru

SCHUELDE OF QUANTITY

Estimate Cost 498000.00

Earnest Money 10000.00

Time Two month

Name of work:- Restoration of snow /rain damages on various road under Tikkar sub Division (sheelghat section) Hiring of JCB
removal of snow /land slide drain cleance of opening of culvert filling depression of berms..

Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Hiring of JCB (Excavato cum loader)having bucket capacity 50m cum inculding shifting charges and other ancillay by Engineer in charge in 18.00 m ducted accordingly JCB be delpoyed by dressing of berms shoulder clearance of drain culverts removal of exess soil from road surace filling pot holes wthi suitabel materials fromm borrow pits and removal of slips wherere ever on the road surface within all leads and lifts as per directions of Engineer in charge	60.00			per day	
	Total				Total	

Executive Engineer
B&R Divn HP.PWD
Rohru

SCHEDULE OF QUANTITY

Estimated cost Rs499636/-
EARNEST MONEY Rs9992/-
TIME : Two month

Name of work - R/R damages on Udho Niwas Jakhra road (SH- C/o R/wall at RD 3/800 to 3/820)

Sr No	Description of Items	Quantity	Rate in Figure	Rate in Words	unit	
1	Excavation in soil in Hilly Area by manual means including cutting and trimming of side slopes and disposing of excavated earth with in all leads and lifts as per drawing and Technical Specification Clause 1603.1 and as per the direction of the Engineer-in-Charge including carriage of material through all modes of transportation within all leads and lifts and other incidentals.	38.00			per cubic metre	
2	Earth work in excavation for all type of road structure such as retaining walls, breast walls, culverts, drains and parapets etcetera in all type of classification of soil comprising of ordinary soil, ordinary rock, hard rocks, chiseling/wedging out of rock (where blasting is prohibited) as per drawing and MORD technical specification Clause 305.1 and as per direction of the Engineer-in-Charge in	34.00			per cubic metre	
3	Providing and laying mechanical mixed and vibrated cement concrete for plain/ reinforced concrete in open foundation for all type of structure complete of plain cement concrete nominal mix 1:6:12 (One cement: six sand : twelve graded crushed stone aggregate) 40 mm (forty millimetre) nominal size oal specification clauses 802,803,1202 and 1203 as per direction of Engineer-in-Charge including carriage of material through all modes of transportation with in all leads and lifts and other incidentals.	9.80			per cubic metre	
4	Providing and laying mechanical mixed and vibrated cement concrete for plain/ reinforced concrete in open foundation for all type of structure complete of plain cement concrete nominal mix 1:4:8 (One cement: four sand : eight graded crushed stone aggregate) 20 mm specification clauses 802,803,1202 and 1203 as per direction of Engineer-in-Charge including carriage of material through all modes of transportation with in all leads and lifts and other incidentals.	4.00			per cubic metre	
5	Random masonry /stone masonry uncoursed brought to courses with hard stone of approved quality in foundation and plinth in cement mortar 1:5(1cement :5sand)complete as per drawing and technical specification clause 702,704 1202 and 1203 HP/PWD specificatio 1990 volume-I within all leads and lifts as per direction of Engineer in charge	34.00			per cubic metre	
6	Construction of dry rubble masonry for retaining walls, breast walls, revetment walls and parapets etcetra for sub-structure and super structure complete as per drawing and MORD Technical Specification clauses 704.6 and 1302.5 and as per the direction of the Engineer-in-Charge including carriage of material through all modes of transportation within all leads and lifts and other incidentals.	63.52			per cubic metre	
7	Back filling the retaining wall and wing wall and return wall complete as per drawing and technical specification clause 1204 3.8 within all leads and lifts as per directions of Engineer in charge	9.60			per cubic metre	
Total:-					Total	

Executive Engineer
B&R Divn HP.PWD
Rohru

DRAFT SCHEDULE OF QUANTITY

Estimate Cost Rs458167/-
Earnest Money Rs91163/-
Time

Name of work : C/O link road Pujarli Panmesri to Dunana Dogri km 0/0 to 2/0(SH- P/L kharanja stone soling at RD 0/240 to 0/480)

Sr. No	Sub-head and item of works.	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Preparation of sub grade by dressing to camber (Earth work for the cutting involved for sub-grade to be paid for separately depending upon the classification of soil completed as per HP.PWD specifications within all leads and lifts as per directions of Engineer in charge	884.40			Per Sqm	
2	Consolidation of sub grade with road roller including making good the undulation etc. with earth or quarry soil etc. and rerolling the sub-grade completed as per HP.PWD specifications and as directed by the Engineer in Charge.	884.40			Per Sqm	
3	Stone soling properly hand packed filling interstices with spalls and consolidating with power road roller to the requested gradient and camber including spreading watering and rolling of binding materials moorum earth etc. as per HP.PWD specification 230 mm spread thickness finished work including material and labour within all leads and lifts as per directions of Engineer in charge	203.41			Per Sqm	
					Total:-	

Executive Engineer
B&R Divn HP.PWD
Rohru

SCHEDULE QUANTITY .

Estimated cost:- 430588/-

Earnest Money:- 8700/-

Time :- one month

Name of work: Improvement of Black sport on Jagohli Nallah Andrawthi road km 0/0 to 6/0 (SH- Wildening of road at RD 0/985 to 1/045 and 2/075 to 2/225)

sr No.	Sub-Head/Item of work.	Qty.	Rate		Unit.	Amount.
			In Figures.	In Words		
1	2	3	4	5	6	7
1	Excavation in earth work in hilly area in all heights and depths in all kinds of soil including saturated soil comprising of mixed soil, ordinary and hard rock. All work of rock cutting by blasting shall be carried out by taking all necessary precautions against soil erosion, damage to hill side. Water pollution, etc and to protect soil stability of hill side rock shall be excavated with chiseling and wedging our rock (where blasting is prohibited). All earth work in cutting/excavation including rock excavation shall be carried out true to line, grades, slopes, width, camber, super elevation and level as shown on the drawing as per direction of Engineer in Charge in conformity with the requirement of technical specification for rural roads august 2004 clause 16.2 of general conditions of contract to achieve designed formation width including hauling and stacking of material useful for construction at suitable sites and stage, disposal of unsuitable cut material in specified manner, trimming/filling of unevenness blindage and finishing of the road to specified dimensions or as directed by Engineer in charge for smooth riding. The recovery of useful stones shall be made from the contractor and recovery 211.06 cubic meter useful stones shall be made @170/-per cubic meter on prorata basis in each running bill. Any loss to the public and private property during the course of excavation shall be resorted by the contractor what so ever the nature of the same may be. The servicable material will be stacked out specified /dimension in all leads and lifts as per the direction of Engineer in Charge.	1954.86			per cubic metre	
					Total:-	

Executive Engineer
B&R Divn HP.PWD

SCHEDULE QUANTITY .

Estimated cost:- 462672/-

Earnest Money:- 9253.00

Time :- three month

Name of work: C/O link road Todsa to H.B Limbra km m 0/0 to 2/0(SH-C/O 5/7 metre wide road at RD 1/0 to 1/150)

sr No.	Sub-Head/Item of work.	Qty.	Rate		Unit.	Amount.
			In Figures.	In Words		
1	2	3	4	5	6	6
1	Excavation in earth work in hilly area in all heights and depths in all kinds of soil including saturated soil comprising of mixed soil, ordinary and hard rock. All work of rock cutting by blasting shall be carried out by taking all necessary precautions against soil erosion,damage to hill side.Water pollution, etc and to protect soil stability of hill side rock shall be excavated with chiseling and wedging our rock (where blasting is prohibited).All earth work in cutting/excavation including rock excavation shall be carried out true to line,grades,slops,width,camber,super elevation and level as shown on the drawing as per direction of Engineer in Charge in conformity with the requirement of technical specification for rural roads august 2004 clause 16.2 of general conditions of contract to achieve designed formation width including hauling and stacking of material useful for construction at suitable sites and stage, disposal of unsuitable cut material in specifiied manner, trimmingfilling of unevenness blindage and finishing of the road to specified dimensions or as directed by Engineer in charge for smooth riding.The recovery of useful stones shall be made from the contractor and recovery 211.94 cubic meter useful stones shall be made @170/-per cubic meter on prorata basis in each running bill. Any loss to the public and private property during the course of excavation shall be resorted by the contractor what so ever the nature of the same may be.The servicable material will be stacked out specified /dimension in all leads and lifts as per the direction of Engineer in Charge.	2354.72			per cubic metre	
					Total:-	


 Executive Engineer
 B&R Divn HP.PWD
 Rohru

SCHEDULE OF QUANTITY.

Estimated Cost 3 70 460 00
Earnest Money 74000-
Time 2 Months

18

Name of Work:- C/O Link road to Village Barara k.m. 0/0 to 1/00 (SH:- C/O B/wall at R.D. 0/0 to 0/020)

Sub-head and item of works	Quantity.	Rate in figures.	Rate in words.	Unit.	Amount.
1 Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a any lead and lift, dressing of sides and bottom and backfilling in trenches with excavated suitable material useful material available from excavation to be properly stacked and handed over to the department free of cost including all leads and lifts as per HPPWD specification of 1990 volume-I or as directed by the Engineer In Charge	37.80			Per Cum	
2 Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a any lead and lift, dressing of sides and bottom and backfilling in trenches with excavated suitable material useful material available from excavation to be properly stacked and handed over to the department free of cost including all leads and lifts as per HPPWD specification of 1990 volume-I or as directed by the Engineer In Charge	31.60			Per Cum	
3 Providing and laying concrete concrete 1:6:12 (1 cement: 6 sand: 12 graded stone aggregate 40mm nominal size) for plain reinforced concrete in open foundations complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 including all leads and lifts, as per HPPWD, specification of 1990 volume-I or as directed by the Engineer In Charge	6.40			Per Cum	
4 Providing and laying concrete concrete 1:4:6 (1 cement: 4 sand: 6 graded stone aggregate 25mm nominal size) in open foundations complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 including all leads and lifts as per HPPWD specification of 1990 volume-I or as directed by the Engineer In Charge	4.00			Per Cum	
5 Random rubble masonry stone masonry (uncoursed) (rough to courses) with hard stone of approved quality in foundation, in cement mortar 1:6 (1 cement: 6 sand), complete as per drawing and technical specifications clauses 702, 704, 1202 & 1203 including all leads and lifts, as per HPPWD, Specification of 1990 Volume I, as directed by the Engineer In Charge	40.32			Per Cum	
6 Construction of dry rubble masonry for retaining walls, breast walls, revetment walls and parapets etc. for sub-structure and super structure complete as per drawing and technical specification clauses 704.6 & 1302.5 including all leads and lifts as per HPPWD specification of 1990 volume-I as directed by the Engineer-In-Charge	31.31			Per Cum	

Executive Engineer
B&R, Q&N HPPWD
Rohru.

Schedule of Qty							
				Estimate Cost	494688		
				Earnest Money	9900.00		
				Time	Two Month		
Name of Work :- Repair and maintenance of Sub Division office at Chirgaon (Je , SDC & Clark room).(SH:- P/F Wood panel. PVC Ceiling and Polish work etc.)							
Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.	Amount
1	Providing wood work in trusses purlins, rafters, posts post plates, wall plates and the like wrought framed, hoisted and fixing in position.	0.23			cum		
2	Providing and fixing plain lining with tongued and groved jointing and screws (frame work and cover fillets to be measured and paid for separately with.	72.06			sqm		
3	Providing and fixing PVC ceiling with tongued and grooved jointing and screws (frame work and cover fillets to be measured and paid for separately)	10.89			sqm		
4	Providing and fixing 9mm thick commercial board shutters for cup boards including fixing with nickel plated piano hinges with screws etc complete including carriage of material within all leads and lifts as per direction of Engineer-in-charge.	72.06			sqm		
5	P/F 12mm thick prelaminated board both side Bwp phenol bonded extrior/interior grade sgutter with frame 1st class deodar wood.	19.76			sqm		
6	Polishing two coats with french polish on new wood and wood based surfaces to given an even surface including cleaning the surface of all dirt, dust and sand papered smooth and including a coat of wood filler.	72.06			sqm		

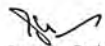

 Executive Engineer
 B&R Division HPPWD
 Rohru

Schedule of Qty						
				Estimate Cost	487862	
				Earnest Money	9800.00	
				Time	Two Month	
Name of Work :- Repair and maintenance of Sub Division Office at Chirgaon.(SH:- P/F Wood panel , PVC Ceiling and polish work etc.)						
Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount
1	Providing wood work in trusses purlins, rafters, posts post plates, wall plates and the like wrought framed, hoisted and fixing in position.	0.32			cum	
2	Providing and fixing plain lining with tongued and grooved jointing and screws (frame work and cover fillets to be measured and paid for separately with.	49.68			sqm	
3	Providing and fixing PVC ceiling with tongued and grooved jointing and screws (frame work and cover fillets to be measured and paid for separately)	21.07			sqm	
4	Providing and fixing 19mm thick commercial board shutters for cup boards including fixing with nickel plated piano hinges with screws etc complete including carriage of material within all leads and lifts as per direction of Engineer-in-charge.	49.68			sqm	
5	P/F 12mm thick prelaminated board both side Bwp phenol bonded extrior/interior grade sgutter with frame 1st class deodar wood.	22.65			sqm	
6	Polishing two coats with french polish on new wood and wood based surfaces to given an even surface including cleaning the surface of all dirt, dust and sand papered smooth and including a coat of wood filler.	49.68			sqm	
7	Providing and fixing Steel Legs complete including carriage of materials in all leads and lifts:-	30.00				
8	Providing and fixing powder coated Aluminium tower bolts (Berrel type) transparent or dyed to required shade and colour with screws etc. complete including carriage of materials in all leads and lifts:-					
	150 X 10 mm	10			each	

Schedule of Qty						
				Estimate Cost	495339	
				Earnest Money	9900.00	
Name of Work :- A/R & M/O Sewrage work behind S.E Residence and Staff Quarter.(SH:- C/o Chamber & P/L PVC pipe etc.)				Time	Two Month	
Sr.No.	Sub-Head and Item of works	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Demolition below G.L upto 1.5 mtr depth and disposal of unserviceable materials within 20 mtr lead un-reinforced cement concrete up to 15cm thickness.	10.80			cum	
2	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material, in ordinary rocks up to 3 mtr depth	342.00			cum	
3	Providing and fixing ISI marked high pressure PVC (finolex) of working pressure not less than 4.5 kg/sqm, waste and ventilating pipes including fixing with approved adhesive etc. complete including carriage of materials within all leads and lifts. :-110 mm (one hundred and Ten) nominal size :-					
	75mm dia	35.00			rmt	
	110mm dia	35.00			rmt	
	150mm dia	70			rmt	

4	Constructing manhole with R.C.C. top slab in 1:2:4 mix (one cement : two sand : four graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 (one cement ; four sand : eight graded stone aggregate 40 mm (forty millimetre) nominal size), inside plastering 15mm (fifteen millimetre) thick with cement mortar 1:3 (one cement : three sand) and finished with floating coat of neat cement and making channels in cement concrete 1:2:4 mix (one cement : two sand : four graded stone aggregate 20mm (twenty millimetre) nominal size finished smooth complete including curing and testing complete within all leads, lifts of materials and other incidentals. :-Inside size 800 mm (eight hundred millimetre) x 800 mm (eight hundred millimetre) and 1.0m (one metre) deep including precast reinforced Cement concrete manhole Cover (Medium Duty) with frame 600 mm dia:-with 200mm (two hundred millimetre) thick walls of brick masonry using common burnt clay building bricks in cement mortar 1:3 (one cement : three sand) within all leads, lifts of materials and other incidentals..	9			no	
5	Providing and fixing plain lining with tongued and groved jointing and screws (frame work and cover fillets to be measured and paid for separately with.	12.96			cum	
6	Providing and fixing PVC (finolex) door bend with oval access door, insertion rubber washer 3 mm thick bolts and nuts ISI marked complete including fixing with approved adhesive etc. complete. including carriage of materials within all leads and lifts.					
	110 mm (one hundreded and Ten) nominal size :-	8				
	75 mm nominal size :-	8			No	
7	Providing and fixing PVC (finolex) plain bend ISI marked including fixing with approved adhesive etc. complete.including carriage of materials within all leads and lifts.				No	
	110 mm (one hundreded and Ten) nominal size :-	8				
	150 mm (one hundreded fifty) nominal size :-	6			No	
8	Providing and fixing PVC Finolex collars ISI marked including fixing with approved adhesive etc. complete including carriage of material within all leads and lifts as per direction of Engineer-in-charge:-				No	

	110 mm (one hundreded and Ten) nominal size :-	8			No	
	150 mm (one hundreded fifty) nominal size :-	8			No	
9	Providing and fixing vitreous China wash, down water closet (European Type W.C. pan) with integral 'P' or 'S' trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 sand) seat and cover to be measured and paid for separately including carriage of materials within all leads and lifts :-Anglo Indian universal closet.	2			No	
10	Providing and fixing stainless steel kitchen sink of approved standard ISI make with drain board and C.P. waste with C.I. or M.S. Brackets painted white including cutting holes and making good the same but excluding fitting 610 x 510 mm with bowl depth 200 mm including carriage of materials within all leads and lifts	2			No	
11	Providing and fixing 10.00 ltr.capacity PVC low level flushing cistern Hind ware sleek ultra design No 186575 size 42 X 39 X 14 cm or equivalent with a pair of brackets with fittings such as lead valve, syphon, 15mm nominal size PVC ball valve with polythene float, with push button, couplings for connections with inlet, outlet and overflow pipe, 40mm dia C.P. flush bend including cutting holes in walls and making good the same and connecting the flush bend with cistern and closet (overflow) pipe to be measured and paid for separately including carriage of materials within all leads and lifts :-	2			no	
	Total					


 Executive Engineer
 B&R Division HPPWD
 Rohru

SCHEDULE OF QUANTITY					
ESTIMATED COST: Rs. 1,26,000/- Earnest Money 2600/ TIME ALLOWED :- 15 Days.					
Name of work :- R/R Damages to Machoti Paddanallah road k.m. 0/0 to 9/00 under Rohru Sub-Division (SH:-Hiring of JCB for removal of slips/snow/slush/land slide & maintenance of road etc.)					
Sr No.	Sub-Head and Item of works	Quantity	Rate in figures	Rate in words	Unit Amount
	Hiring of J.C.B(Excavator-Cum-Loader) having bucket capacity .50 cum including P.O.L charges, shifting charges and other ancillary equipments as required at site of work for removal of snow & slips in all heights in all kinds of soil such as kankar, moorum shingle boulders decomposed or soft variety of soil such as spade work, pick work, Jumper work, soft rock, hard rock including their intermediate classification of soil including mechanical transportation of necessary. The disposal of this un-serviceable material has to be done in the acquired width of the road to avoid damage to the properties of the people or in case any damage took place, the contractor is liable for it. All salvaged material such as quarried stone shall belong to the department and maximum useful quantity of stones from removal of slips shall have to be neatly stacked along road side on road burms. Minimum 30cubic meter of earth work shall be done by machine in one hour, other wise number of hour shall be reduced accordingly. The work shall have to be carried out as per Ministry of Transport as per instructions of the Engineer-In-Charge including all leads and lifts.	15.00			day
Total:-					

Executive Engineer
Rohru Division, HP PWD
Rohru.

SCHEDULE OF QUANTITY

Estimated cost Rs 457730/-
 EARNEST MONEY Rs 9100/-
 TIME : Two month

Name of work: - R/R damages to Bhiloon kanchi kul road km 0/0 to 14/0(SH-R/wall In PCC 1:4:8 at Rd 4/325 to 4/366.50)

Sr No	Description of Items	Quantity	Rate in Figure	Rate in Words	unit	Amount
1	Excavation in soil in Hilly Area by manual means including cutting and trimming of side slopes and disposing of excavated earth with in all leads and lifts as per drawing and Technical Specification Clause 1603.1 and as per the direction of the Engineer-in-Charge including carriage of material through all modes of transportation within all leads and lifts, and other incidentals	14.95			per cubic metre	
2	Earth work in excavation for all type of road structure such as retaining walls, breast walls, culverts, drains and parapets etcetera in all type of classification of soil comprising of ordinary soil, ordinary rock, hard rocks, chiseling/wedging out of rock (where blasting is prohibited) as per drawing and MORD technical specification Clause 305.1 and as per direction of the Engineer-in-Charge in	16.45			per cubic metre	
3	Providing and laying mechanical mixed and vibrated cement concrete for plain/ reinforced concrete in open foundation for all type of structure complete of plain cement concrete nominal mix 1:6:12 (One cement: six sand : twelve graded crushed stone aggregate) 40 mm (forty millimetre) nominal size and specification clauses 802, 803, 1202 and 1203 as per direction of Engineer-in-Charge including carriage of material through all modes of transportation with in all leads and lifts and other incidentals.	7.94			per cubic metre	
4	Providing and laying mechanical mixed and vibrated cement concrete for plain/ reinforced concrete in open foundation for all type of structure complete of plain cement concrete nominal mix 1:4:8 (One cement: four sand : eight graded crushed stone aggregate) 25 mm (twenty five millimetre) nominal size and specification clauses 802, 803, 1202 and 1203 as per direction of Engineer-in-Charge including carriage of material through all modes of transportation with in all leads and lifts and other incidentals.	70.38			per cubic metre	
5	Providing weepholes in brick masonry/stone masonry /plain concrete abutment wing wall return wall 100mm dia AC pipe extending through the full width of the structures with slope of 1(V)20(H) through drawing face complete as per drawing and technical specification clause 614, 709, 1204 3.7 within all leads and lifts as per directions of Engineer in charge	18.00			No	
6	Back filling the retaining wall and wing wall and return wall complete as per drawing and technical specification clause 1204 3.8 within all leads and lifts as per directions of Engineer in charge	18.40			per cubic metre	

Executive Engineer
 B&R Divn HP.PWD
 Rohru

SCHEDULE OF QUANTITY

ESTIMATED COST Rs4 68399/-
Earnest money Rs9615/-
Time :-Two month

Name of Work:- Missing C,D Tutu Panl Naiban road km 0/0 to 5/500(SH- C/D 900mm humpe culvert at Rd 1/750

S.N o.	Sub-head and Item of works.	Quantity.	Rate in figures.	Rate in words.	Unit	Amount.
1	Excavation in soil in Hilly Area in all kind of sand by mechanical/manual means including cutting and trimming of side slopes and disposing of excavated earth with a lift upto any lead and lift as per Technical Specification Clause 1603.1 and as per HPPWD, specification of 1990 Volume-I, or as directed by the Engineer-In-Charge.	25.460			cum	
2	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a any lead and lift, dressing of sides and bottom and backfilling in trenches with excavated suitable material useful material available from excavation to be properly stacked and handed over to the department free of cost including all leads and lifts, as per HPPWD, specification of 1990 volume-I or as directed by the Engineer-In-Charge	32.02			cum	
3	providing and laying cement concrete for renifored concrete foundation complete as per drawing and technical specicatin PCC 1:3:6 M-10 with in all leads and lifts as per directions of Engineer in charge	1.690			cum	
4	Stone masonry in cem ent concrete for sub substtite complete as per drawing technical specification clause 702.704 1202 and 1204 cement mortar 1:5 1cement 5sand	12.12			cum	
5	Random rubble masonry stone masonry(un-coursed/brought to courses)with hard stone of approved quality in foundation in cement mortar 1:6(1cement:6sand) complete as per drawing and technical specifications Clauses 702, 704, 1202 & 1203.including all leads a	34.97			cum	
6	Providing and laying reinfoeced cement concrete pipe NP2 for culverts on first class bedding of graular materials in sigle row including fixing collar with cement mortar 1:2 but excluding excluding excavation ,protection works back filling concrete and masonry work in head wall and parapets clause 1106 within all leads and lift as per directions of Engineer	7.50			rmt	
7	Providing and lahyng rubble flooring complete as per drawing and technical specification clause 1303 within all leads and lifts as per diorections of engineer in charge	0.49			cun	
8	Back filling behind abutment wing wall and return complete as per drawing and technical specification including all leads and lifts, as per HPPWD, specification of 1990 volume-I as directed by the Engineer-In-Charge.	4.77			cum	
9	Providing and Laying concrete concrete 1:6:12 (1cement: 6 sand: 12 graded stone aggregate 40mm nominal size)for plain/reinforced concrete in open foundations complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 including all leads and lifts, as per HPPWD, specification of 1990 volume-I or as directed by the Engineer-In-Charge	7.63			cum	

10	provirting PCC 1:4:8 in foundation complete as per drawing and technical specification within all leads asnd lifts as per direcitons	4.56			cum	
11	Construction of dry rubble masonary for retaining walls, breast walls,revetment walls and parapets etc. for sub-structure and super structure complete as per drawing and technical specification clauses 704.6 & 1302.5 including all leads and lifts, as per HPPWD, specification of 1990 volume-I as directed by the Engineer-In-Charge	29.40			cum	
					Total	

Executive Engineer
B&R Division
Rohru