

**Uttarakhand
Decentralized Watershed Development II Project**

SOIL & WATER CONSERVATION MANUAL

**Watershed Management Directorate
Uttarakhand, Dehradun**

1. Introduction:

In Uttarakhand State under Uttarakhand Decentralized Watershed Development Project Phase-II, several soil and water conservation activities will be undertaken. These activities will be proposed and executed by the gram panchayats. In order to equip the community as well as MDT members with the basic knowledge about these mechanical measures, this manual for soil conservation works has been prepared. This manual contains the basic know how about the commonly used engineering measures and also the designs, drawings and sample estimates of various structures which are suitable for most of the sites (though their actual designs depend upon so many factors like size and shape of the catchments, type of the soil, gradient etc).

1.1 Purpose:

Purpose of this manual is to provide the basic information about the various mechanical measures of soil and water conservation, maintain uniformity in the designs of various structures, and make the process of preparation as well as technical scrutiny of estimates easy and to speed it up.

1.2 Target Group:

This technical manual is primarily meant for different stakeholders like MDT members, field staff of all levels and the community involved in the execution of soil and water conservation works under Uttarakhand Decentralized Watershed Development Project Phase-II.

1.3 About The Project:

The Uttarakhand Decentralized Watershed Development II Project (Gramya-II) has been promoted by the Government of Uttarakhand and supported and funded by the World Bank. The primary approach in this Project is to implement its objectives through Gram Panchayats under overall monitoring of the Watershed Management

Directorate. The main themes proposed in the Project which converge as its main components are: -

- Social Mobilization and Participatory Watershed Planning
- Watershed Treatment and Rain-fed Area Development
- Enhancing livelihood opportunity
- Knowledge Management and Project Coordination

Sub-components/ Activities related to Soil and Water Conservation:

The component Watershed Treatment and Rain-fed Area Development deals with the watershed treatment of the micro watersheds. Under this component soil & water conservation is one of the main activities which are useful for augmentation of soil & water and also for source sustainability with the ecological rehabilitation of the degraded micro watersheds. The following mechanical measures/ activities would be adopted in the Uttarakhand Decentralized Watershed Development II Project under the component of Watershed Treatment and Rain-fed Area Development.

A) Check Dams

- (i) Brush Wood Check Dams
- (ii) Dry Stone/ Loose Rock Check Dams
- (iii) Crate Wire Check Dams

B) Spurs/ Groynes

- (i) Vegetative Hedge/Spur
- (ii) Crate Wire spur

2. Check Dams:

These structures are used in gullies to facilitate the establishment of vegetation or to provide protection at points that cannot be adequately protected in any other way. The erosive velocities of runoff are reduced by flattening out the steep uniform gradient of the gully by constructing a series of checks (commonly known as check

dams) from top to bottom which transform the longitudinal gradient into a series of steps with low risers and long flat treads.

The material to be used for check dams will depend upon whatever is available locally and no check damming should be attempted unless suitable stone, brick, timber or brushwood is to be had near the spot.

Depending upon the material used these gully control structures are of the following types:

- (i) Brush Wood Check Dams
- (ii) Log Dams
- (iii) Dry Stone/ Loose Rock Check Dams
- (iv) Crate Wire Check Dams

2.1 Brushwood check dams:

Brushwood check dams are constructed with the help of locally available wooden poles and brushwood. Wooden poles are driven into the ground in a single or double row across the nalla and brushwood is packed on the upstream face of the check dam.

Suitability:

This type of check dams are provided in small and medium gullies where wooden poles are locally available and the side slope of the gully is less than 45degrees. Depending upon the size of the gully and area of catchments, poles of about 7.5 cm dia. are driven into the ground in a single row or a double row across the nalla at right angle to flow and accordingly these are called single row or double row brushwood check dams. Single row brushwood check dams are used in small gully heads not deeper than 1.00 mtr. Whereas in case of medium gullies (up to about 2 m deep and 6.00 m wide) double row brushwood dams are most suitable. The posts used should preferably be of species *Lannea coromandelica*, Sisso and Ficus which will strike roots.

Design Specifications:

(a) Single row brushwood check dam:

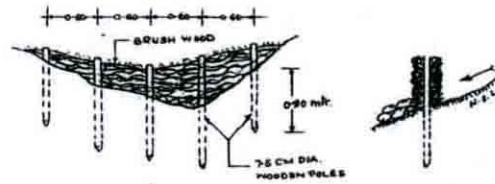
In case of a single row check dams wooden poles are driven 90 cms deep into the ground and the centre to centre spacing between two consecutive poles should be 60 cms. The height of the poles in the middle of the nalla bed should be 30 to 60 cms less than those of the poles on the banks so that a deep concave curve is formed at the top to dispose of excess water. The brushwood is packed against the u/s face of the poles and on the downstream side brushwood matting is laid out which acts as an apron for the dam and protects the downstream from erosion. The wooden stakes may be treated with coal tar/creosote oil to protect them from attack by white ants. For a brushwood check dam, an average height of about 0.3-0.7 m is usually considered to be satisfactory.

(b) Double row brushwood check dam:

In case of a double row brush wood check dam, poles are placed about 90 cms apart in two parallel rows and the embedment of these poles into the nallah bed should be 90 to 120 cms. The distance between two rows should not exceed 90 cms. and the poles are tied up with GI wire. The straw and brushwood is laid across the gully between two rows of wooden posts and a brushwood apron held by galvanized iron bar is necessary to prevent scouring.. A brush wood apron held by galvanized iron wire is necessary to prevent scouring.

SINGLE ROW BRUSHWOOD CHECK DAM

Figure I



DOUBLE ROW BRUSHWOOD CHECK DAM

Figure II

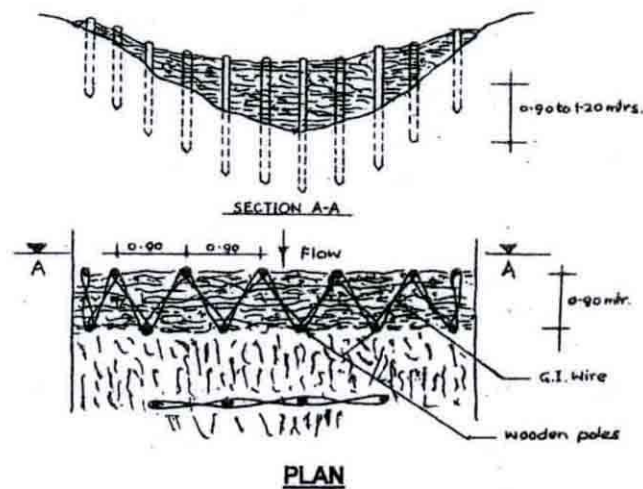


Fig. i & ii- Details of single row and double row brush wood check dams.

2.2 Log/Wood Check Dams:

The use of these types of check dams should be restricted only to the places where no other material such as stones, brick etc. is available and the wooden logs are available in abundance. The use of wooden logs for the construction of check dams is explained diagrammatically in figure (iii). White ants are the greatest enemy of this type of structures and accordingly the required measures should be taken before hand.

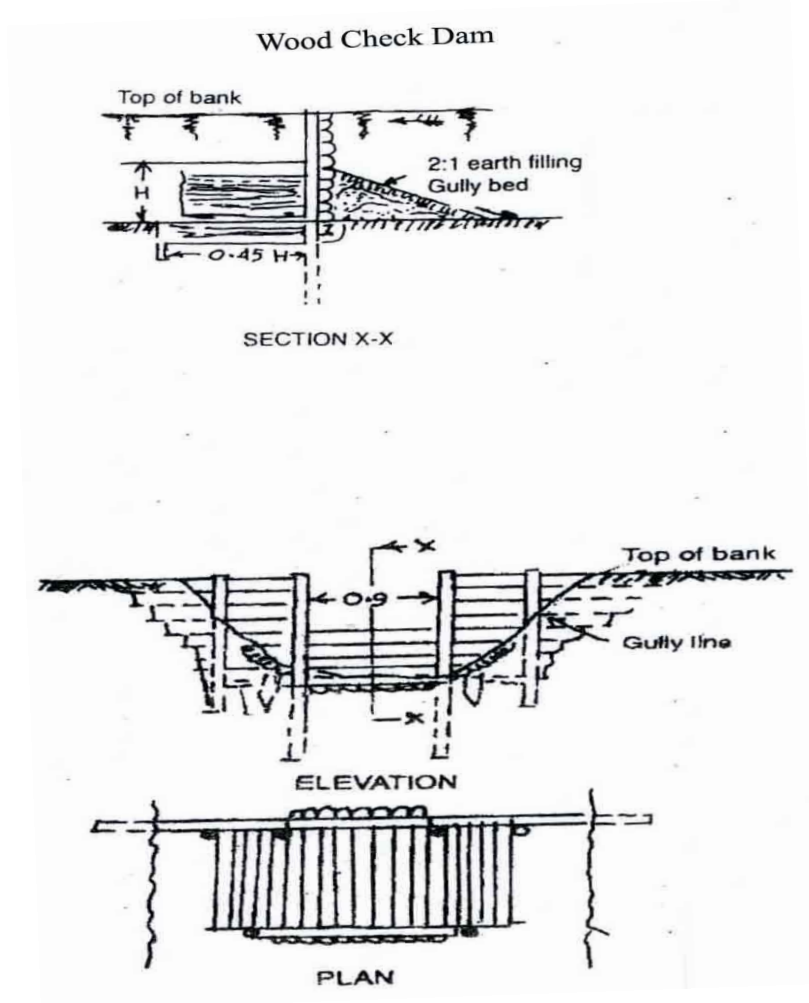


Figure iii- Log/Wood Check Dams

2.3 Dry stone/loose rock check dams:

These types of check dams are used for checking runoff velocity in steep and broad gullies where good size of stones is available in abundance. Dry stone/loose rock check dams have longer life and usually require less maintenance as compared to brushwood check dam.

Suitability:

These are generally constructed at upper reaches of drainage lines/gullies in the newly formed or branches of main nallas less than 100 m in length, where plenty of boulder stones are locally available.

Design Specifications:

Dry stone/ loose boulder check dams are usually constructed up to about 1.25 m height and about 2.5 m length. The foundation of the check dams should be dug out from 0.3 m - 0.5 m and the keying into stable portion of banks is also kept from 0.3 m - 0.6 m. Top width of the check dam is kept from 0.5m with the sides sloping at 0.5 H : 1 V.

2.4 Wire crate check dams:

Wire crate/gabion check dams are used for retention of debris in the main nallas and are constructed by filling of stones in wire mesh cage. The size of the wire mesh is generally kept 15cm x 15 cm and the wire used for these cages is galvanized iron wire of 8 - 7 gauge (4 - 4.5 mm). These structures are widely adopted for the treatment of drainage lines because they are flexible (bend without breaking), porous (water can seep through them) and are economical as compared to masonry structures.

Suitability:

Gabion check dams are used in the main drainage channels receiving relatively large quantities of runoff and debris. These structures are constructed up to a height of about 1- 3 m.

Design Specifications:

Since such check dams do not attempt to pond back water therefore complete stopping of seepage is not important; however the stability of the structure against overturning and being washed away by flowing water must be ensured. The foundation of these check dams should be dug out from 0.3 m -

0.5 m and the keying into stable portion of banks is also kept from 0.3 m - 0.6 m. Top of the check dam is kept 1 m wide and its height can vary from 1-3 m. Wire mesh of size 15 cm x 15 cm to 20 cm x 20 cm depending upon the size of stones is used. The wire used for the mesh is hot dipped zinc coated GI wire of thickness 8-7 gauge (4-4.5 mm).

2.5 Spacing of check dams:

The key point of importance while planning the location of check dams in a particular gully/nalla is the spacing between two consecutive structures. Because too few bunds/structures are practically useless in preventing the further scouring of a nalla bed whereas too closely placed bunds/structures will lead to increase in number of structures thereby will make the treatment of gully very expensive.

Hence the distance between two plugs or structures could be such that at no point the flowing water should acquire an erosive velocity. This can be achieved if the bunds or check dams are so placed that the bottom of the upper structure and the top of the lower structure are kept almost on the same level. However, this would involve exorbitant cost in steep hilly nallas. Hence in order to reduce number of checks and thereby cost, a small gradient called 'compensation gradient' which would limit the flow velocities within permissible limits, is usually allowed between the two consecutive check dams (Fig.iv). A grade up to 0.5 % in silt and clayey soils and up to 3% for drainage lines with step slopes and boulders is usually allowed.

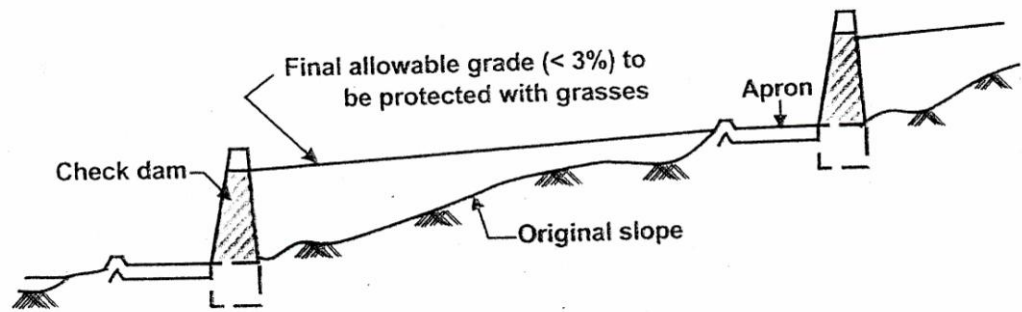


Figure - iv

The horizontal distance between the check dams can be determined by using the following equation:

$$L = \left\{ \frac{100}{M-N} \right\} H$$

Where,

L = Horizontal distance between check dams,

M = Original gully gradient,

N = Proposed gully gradient, and

H = Check dam height up to the weir

Alternatively, the spacing of check dams can be determined by the following formula:

$$\text{Spacing} = H/K \tan\theta \cos\theta$$

Where,

H = Height of check dam from bed to crest level,

K = Constant; K = 0.3 for $\tan\theta$ less than 0.20 and 0.5 for $\tan\theta$ more than 0.20 and

θ = Angle of channel bed with the horizontal.

Following table gives spacing of check dams for different land slopes and dam height:

| Land slope (%) | Spacing of check dams for height (m) | | |
|----------------|--------------------------------------|------|------|
| | 0.45 | 0.75 | 1.00 |
| 1 | 152 | 253 | 337 |
| 2 | 75 | 125 | 167 |
| 3 | 50 | 83 | 111 |
| 4 | 38 | 63 | 83 |
| 5 | 30 | 50 | 67 |
| 6 | 25 | 42 | 56 |
| 7 | 21 | 36 | 48 |
| 8 | 19 | 31 | 42 |
| 9 | 17 | 28 | 37 |
| 10 | 15 | 25 | 34 |
| 11 | 14 | 23 | 30 |
| 12 | 13 | 21 | 28 |
| 13 | 12 | 19 | 26 |
| 14 | 11 | 18 | 24 |
| 15 | 10 | 17 | 22 |
| 16 | 9 | 16 | 21 |
| 17 | 9 | 15 | 20 |
| 18 | 8 | 14 | 19 |
| 19 | 8 | 13 | 18 |
| 20 | 8 | 13 | 17 |
| 21 | 4 | 7 | 10 |
| 22 | 4 | 7 | 9 |
| 23 | 4 | 7 | 9 |
| 24 | 4 | 6 | 9 |

2.6 Criteria for site selection:

- The place where plugging is proposed must produce some direct or indirect benefit to the villagers or farmers.
- Slope of the nalla bed should be less than 30 degrees.
- Plug should not be proposed at the curve of the nalla.
- Width of the nalla should be minimum possible where the structure is to be proposed.

2.7 Precautions to be taken while implementation:

- Designs and estimates with economic implications of the budget in terms of labour and material requirement should be shared with the user group.
- Alignment of the nalla bund or check dam should be perpendicular to the direction of flow of water.
- The place where the banks are unstable, wing walls or side pitching on the banks should be taken up.
- There should be sufficient provision for the excess water to flow over the structure without scouring and oversreading into the nearby areas.
- The implementation should conform exactly to the designed specifications.

3. Spurs

These structures are constructed transverse to the river flow in order to serve the following purposes:

- (i) They protect the river banks by keeping the flow away.
- (ii) They create still pond along a particular bank with an aim to silt up the area in the vicinity.
- (iii) They train the river flow along a desired course by attracting, deflecting or repelling the flow.
- (iv) They contract the wide river channel for improving navigation depth.

3.1 Classification

Spurs may be classified as follows;

- (a) Permeable
- (b) Impermeable

When a river is to be confined to a definite channel impermeable type of spur is most suitable. For excessively silt- laden rivers permeable spurs are

suitable. Permeable spurs such as gabion and vegetative spurs are most effective, less expensive and can be made from locally available material. Their stability is better than solid ones due to lesser scour around them.

3.2 General Arrangement:

Spurs may be used singly or in series or in combination with other training works depending upon the problem in hand.

If training or protection is to be given over a long river reach, spurs are used in series and a spacing of 2 to 2.5 times the projected length of spur is a general practice. A larger spacing of 3 to 4 times the length of the spur can be adopted for convex bank.

3.3 Alignment:

Spurs may be aligned either perpendicular to the bank or inclined, pointing upstream or downstream.

When a spur points upstream, it is called a repelling spur. The reason being, this type has a property of repelling the river flow away from the bank [Fig. (i)].

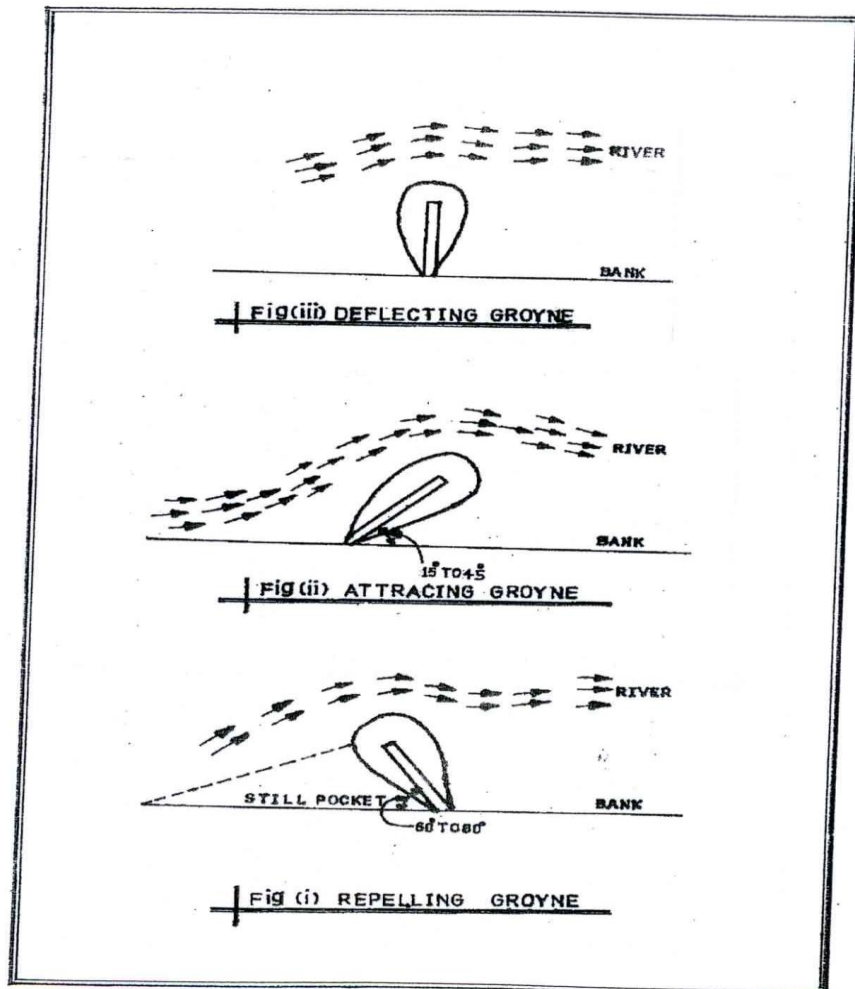
On the contrary, when a spur points downstream it is called an attracting spur as it attracts the river towards the bank from which it takes off [Fig. (ii)].

When a spur of short length is taken perpendicular to the flow, it only deflects the flow locally. Hence it is called deflecting spur [Fig. (iii)]. These spurs are recommended for quick sedimentation.

3.4 Recommended Practices:

- The projected length of spur should not exceed $1/3^{\text{rd}}$ of the width of the river as it causes constriction of river flow.

- Spur failure often occurs due to scouring action at the spur nose. Hence suitable protection in the form of an apron is essential.
- Where the torrent width is sufficient, attracting spurs with an angle of 15-45 degrees (from down stream) may be used for flow diversion purpose.
- If the spur length is long, its angle should be kept low and vice-versa. Normally the spur length may not exceed 10-15 m for greater stability.



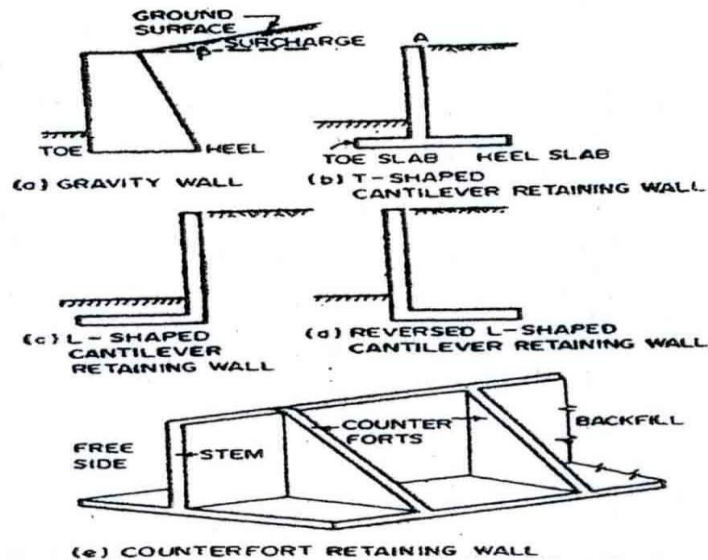
4. Retaining/ Breast Walls:

A retaining wall is a structure used for maintaining the ground surfaces at different elevations on either side of it. The material retained or supported by a retaining wall is called backfill which may have its top surface horizontal or inclined. The position of the backfill lying above the horizontal plane at the elevation of the top of the wall is called surcharge, and its inclination to the horizontal is called the surcharge angle.

Depending upon the mode of resisting the earth pressure and according to the shape, the retaining walls can be classified into the following types:

- Gravity retaining walls
- Cantilever retaining walls (T-shaped or L-shaped)
- Counter fort retaining walls

Various common types of retaining walls are shown in fig. (v)



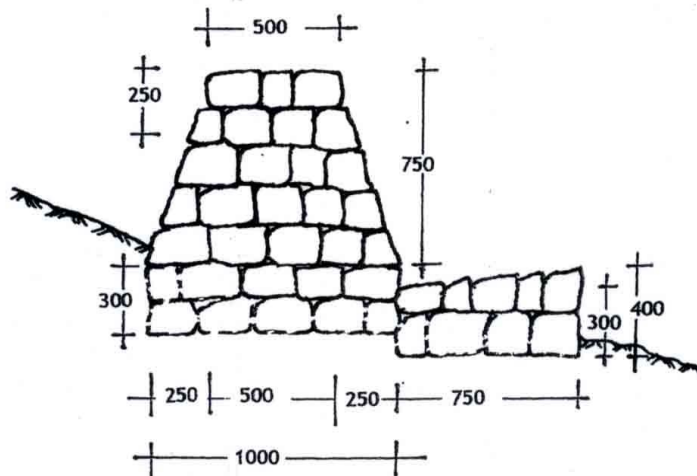
Various types of retaining walls

Figure - v

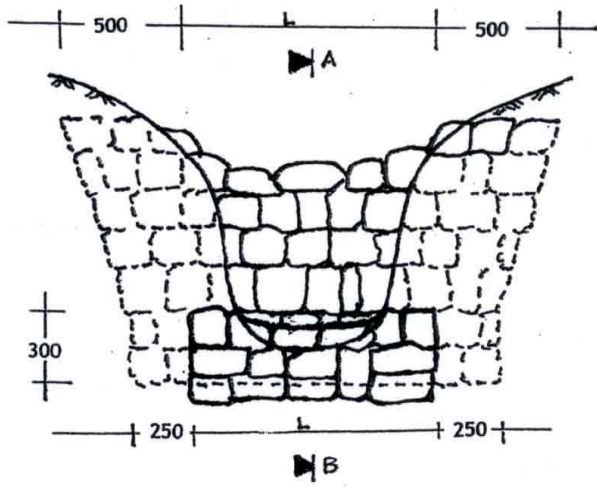
**STANDARD ESTIMATE
FORMATS
OF
DRY STONE / LOOSE ROCK
CHECK DAMS**

DRY STONE CHECK DAM (HT.=0.75 MTR.)

ALL DIMENSIONS ARE IN MM



SECTION AT A-B



D/S ELEVATION

Name of work: _____

WWMC _____ G.P. _____

MWS/ Village : _____ During _____

1 Labour:

2 Material Cost:

3 Others:

Grand Total: _____

Amount in words (Rupees _____)

1 Lead:

2 Mode of carriage of material

3 Agency:- Department Labour.

Certified that:

1. Leads and carriage shown in the estimates are true to the best of my knowledge.

2. Cost of material provided in the estimate is as per the lowest cost prevailing in the market.

Signature:

Village Incharge

Member of WWMC

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 0.75 mtrs. Length

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|
| | | | Length | Width | Depth/Ht. |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | |
| | i. Foundation | 1 | 1.50 | 1.00 | 0.30 |
| | ii Apron | 1 | 1.00 | 0.75 | 0.30 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.00 | 0.90 |
| 3 | Dry hand packed boulder stone filling in: | | | | |
| | i. Foundation | 1 | 1.50 | 1.00 | 0.30 |
| | ii Apron | 1 | 1.00 | 0.75 | $\frac{0.30+0.40}{2}$ |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | |
| | Super Structure | 1 | $\frac{2.00+1.50}{2}$ | $\frac{0.50+1.00}{2}$ | 0.75 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 0.67 | CUM | | |
| | Pick Work @ 50% | 0.33 | CUM | 53.50 | 17.66 |
| | Jumper Work @ 50% | 0.34 | CUM | 98.00 | 33.32 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 0.90 | CUM | 30.65 | 27.59 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 0.71 | CUM | 49.05 | 34.83 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 0.98 | CUM | 87.25 | 85.51 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.24 | CUM | 85.00 | 20.40 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage o f Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.25 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 1.75 | 1.00 | 0.30 | CUM | 0.53 |
| | ii Apron | 1 | 1.25 | 0.75 | 0.30 | CUM | 0.28 |
| | | | | | | Total | 0.81 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.00 | 0.90 | CUM | 0.90 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 1.75 | 1.00 | 0.30 | CUM | 0.53 |
| | ii Apron | 1 | 1.25 | 0.75 | $\frac{0.30+0.40}{2}$ | CUM | 0.33 |
| | | | | | | Total | 0.86 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.25+1.75}{2}$ | $\frac{0.50+1.00}{2}$ | 0.75 | CUM | 1.12 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.25 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 0.80 | CUM | | |
| | Pick Work @ 50% | 0.40 | CUM | 53.50 | 21.40 |
| | Jumper Work @ 50% | 0.40 | CUM | 98.00 | 39.20 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 0.9 | CUM | 30.65 | 27.59 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 0.85 | CUM | 49.05 | 41.69 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.12 | CUM | 87.25 | 97.72 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.28 | CUM | 85.00 | 23.80 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.00 | 1.00 | 0.30 | CUM | 0.60 |
| | ii Apron | 1 | 1.50 | 0.75 | 0.30 | CUM | 0.34 |
| | | | | | | Total | 0.94 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.00 | 0.90 | CUM | 0.90 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.00 | 1.00 | 0.30 | CUM | 0.60 |
| | ii Apron | 1 | 1.50 | 0.75 | $\frac{0.30+0.40}{2}$ | CUM | 0.39 |
| | | | | | | Total | 0.99 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.50+1.75}{2}$ | $\frac{0.50+1.00}{2}$ | 0.75 | CUM | 1.26 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.50 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 0.94 | CUM | | |
| | Pick Work @ 50% | 0.47 | CUM | 53.50 | 25.15 |
| | Jumper Work @ 50% | 0.47 | CUM | 98.00 | 46.06 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 0.90 | CUM | 30.65 | 27.59 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 0.99 | CUM | 49.05 | 48.56 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.26 | CUM | 87.25 | 109.94 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.32 | CUM | 85.00 | 27.20 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.75 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.25 | 1.00 | 0.30 | CUM | 0.68 |
| | ii Apron | 1 | 1.75 | 0.75 | 0.30 | CUM | 0.39 |
| | | | | | | Total | 1.14 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.00 | 0.90 | CUM | 0.90 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.25 | 1.00 | 0.30 | CUM | 0.68 |
| | ii Apron | 1 | 1.75 | 0.75 | $\frac{0.30+0.40}{2}$ | CUM | 0.46 |
| | | | | | | Total | 1.14 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{2.75+2.25}{2}$ | $\frac{0.50+1.00}{2}$ | 0.75 | CUM | 1.4 |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 2.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.50 | 1.00 | 0.30 | CUM | 0.75 |
| | ii Apron | 1 | 2.00 | 0.75 | 0.30 | CUM | 0.45 |
| | | | | | | Total | 1.20 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.00 | 0.90 | CUM | 0.90 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.50 | 1.00 | 0.30 | CUM | 0.75 |
| | ii Apron | 1 | 2.00 | 0.75 | $\frac{0.30+0.40}{2}$ | CUM | 0.53 |
| | | | | | | Total | 1.28 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.50+3.00}{2}$ | $\frac{0.50+1.00}{2}$ | 0.75 | CUM | 1.55 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.75 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.07 | CUM | | |
| | Pick Work @ 50% | 0.53 | CUM | 53.50 | 28.36 |
| | Jumper Work @ 50% | 0.54 | CUM | 98.00 | 52.92 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 0.90 | CUM | 30.65 | 27.59 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.14 | CUM | 49.05 | 55.92 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.4 | CUM | 87.25 | 122.15 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.35 | CUM | 85.00 | 29.75 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

ABSTRACT OF LABOUR COST

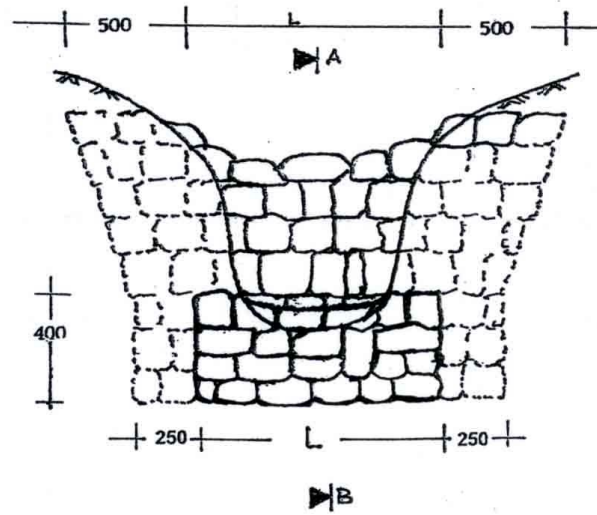
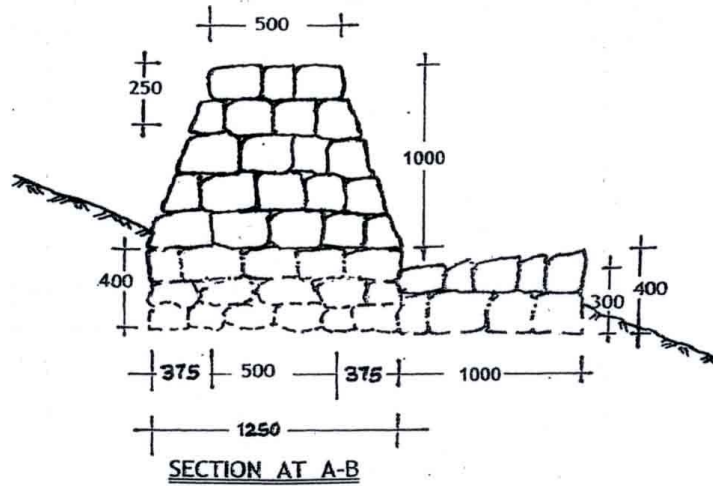
Dry Stone Check Dam

Ht. 0.75 mtrs. Length 2.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.20 | CUM | | |
| | Pick Work @ 50% | 0.60 | CUM | 53.50 | 32.10 |
| | Jumper Work @ 50% | 0.60 | CUM | 98.00 | 58.80 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 0.90 | CUM | 30.65 | 27.59 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.28 | CUM | 49.05 | 62.78 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.55 | CUM | 87.25 | 135.24 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.38 | CUM | 85.00 | 32.30 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DRY STONE CHECK DAM (HT. = 1'00MTR.)

ALL DIMENSIONS ARE IN MM



DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 1.50 | 1.25 | 0.40 | CUM | 0.75 |
| | ii Apron | 1 | 1.00 | 1.00 | 0.30 | CUM | 0.30 |
| | | | | | | Total | 1.05 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 1.50 | 1.25 | 0.40 | CUM | 0.75 |
| | ii Apron | 1 | 1.00 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.35 |
| | | | | | | Total | 1.10 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{2.00+1.50}{2}$ | $\frac{0.50+1.25}{2}$ | 1.00 | CUM | 1.53 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.05 | CUM | | |
| | Pick Work @ 50% | 0.52 | CUM | 53.50 | 27.82 |
| | Jumper Work @ 50% | 0.53 | CUM | 98.00 | 51.94 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.65 | 45.98 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.10 | CUM | 49.05 | 53.96 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.53 | CUM | 87.25 | 133.49 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.38 | CUM | 85.00 | 32.30 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.25mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 1.75 | 1.25 | 0.40 | CUM | 0.88 |
| | ii Apron | 1 | 1.25 | 1.00 | 0.30 | CUM | 0.38 |
| | | | | | | Total | 1.25 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 1.75 | 1.25 | 0.40 | CUM | 0.88 |
| | ii Apron | 1 | 1.25 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.44 |
| | | | | | | Total | 1.32 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.50+1.75}{2}$ | $\frac{0.50+1.25}{2}$ | 0.75 | CUM | 1.85 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.25 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.24 | CUM | | |
| | Pick Work @ 50% | 0.62 | CUM | 53.50 | 33.17 |
| | Jumper Work @ 50% | 0.62 | CUM | 98.00 | 60.76 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.65 | 45.98 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.31 | CUM | 49.05 | 64.26 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.85 | CUM | 87.25 | 161.41 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.46 | CUM | 85.00 | 39.10 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.00 | 1.25 | 0.40 | CUM | 1.00 |
| | ii Apron | 1 | 1.50 | 1.00 | 0.30 | CUM | 0.45 |
| | | | | | | Total | 1.45 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.00 | 1.25 | 0.40 | CUM | 1.00 |
| | ii Apron | 1 | 1.50 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.53 |
| | | | | | | Total | 1.53 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{2.50+2.00}{2}$ | $\frac{0.50+1.25}{2}$ | 0.75 | CUM | 1.96 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.45 | CUM | | |
| | Pick Work @ 50% | 0.72 | CUM | 53.50 | 38.52 |
| | Jumper Work @ 50% | | CUM | 98.00 | 0.00 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.65 | 45.98 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.53 | CUM | 49.05 | 75.05 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 1.96 | CUM | 87.25 | 171.01 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.49 | CUM | 85.00 | 41.65 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.75mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.25 | 1.25 | 0.40 | CUM | 1.13 |
| | ii Apron | 1 | 1.75 | 1.00 | 0.30 | CUM | 0.53 |
| | | | | | | Total | 1.65 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.25 | 1.25 | 0.40 | CUM | 1.13 |
| | ii Apron | 1 | 1.75 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.61 |
| | | | | | | Total | 1.74 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{2.75+2.25}{2}$ | $\frac{0.50+1.25}{2}$ | 1.00 | CUM | 2.18 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 1.75mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.64 | CUM | | |
| | Pick Work @ 50% | 0.82 | CUM | 53.50 | 43.87 |
| | Jumper Work @ 50% | 0.82 | CUM | 98.00 | 80.36 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.65 | 45.98 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.73 | CUM | 49.05 | 84.86 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 2.18 | CUM | 87.25 | 190.21 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.54 | CUM | 85.00 | 45.90 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.50 | 1.25 | 0.40 | CUM | 1.25 |
| | ii Apron | 1 | 2.00 | 1.00 | 0.30 | CUM | 0.60 |
| | | | | | | Total | 1.85 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.50 | 1.25 | 0.40 | CUM | 1.25 |
| | ii Apron | 1 | 2.00 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.70 |
| | | | | | | Total | 1.95 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{3.00+2.50}{2}$ | $\frac{0.50+1.25}{2}$ | 1.00 | CUM | 2.40 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.85 | CUM | | |
| | Pick Work @ 50% | 0.92 | CUM | 53.50 | 49.22 |
| | Jumper Work @ 50% | 0.93 | CUM | 98.00 | 91.14 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.65 | 45.98 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.95 | CUM | 49.05 | 95.65 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 2.40 | CUM | 87.25 | 209.40 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.60 | CUM | 85.00 | 51.00 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.00 | 1.25 | 0.40 | CUM | 1.50 |
| | ii Apron | 1 | 2.50 | 1.00 | 0.30 | CUM | 0.75 |
| | | | | | | Total | 2.25 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.00 | 1.25 | 0.40 | CUM | 1.50 |
| | ii Apron | 1 | 2.50 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.87 |
| | | | | | | Total | 2.37 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{3.50+3.00}{2}$ | $\frac{0.50+1.25}{2}$ | 1.00 | CUM | 2.84 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.25 | CUM | | |
| | Pick Work @ 50% | 1.12 | CUM | 53.50 | 59.92 |
| | Jumper Work @ 50% | 1.13 | CUM | 98.00 | 110.74 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.60 | 45.90 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.37 | CUM | 49.05 | 116.25 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 2.84 | CUM | 87.15 | 247.51 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.71 | CUM | 85.00 | 60.35 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.00 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.50 | 1.25 | 0.40 | CUM | 1.75 |
| | ii Apron | 1 | 3.00 | 1.00 | 0.30 | CUM | 0.90 |
| | | | | | | Total | 2.65 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.25 | 1.20 | CUM | 1.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.50 | 1.25 | 0.40 | CUM | 1.75 |
| | ii Apron | 1 | 3.00 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 1.05 |
| | | | | | | Total | 2.80 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{3.50+4.00}{2}$ | $\frac{0.50+1.25}{2}$ | 1.00 | CUM | 3.28 |

ABSTRACT OF LABOUR COST

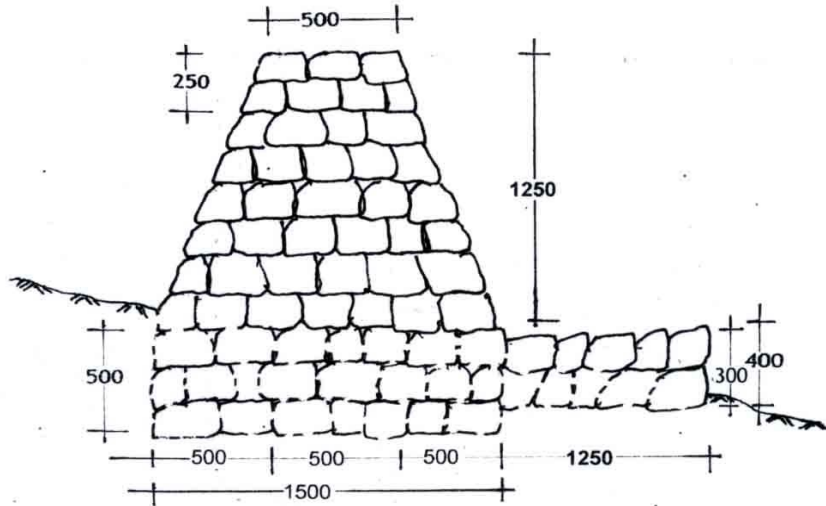
Dry Stone Check Dam

Ht. 1.00 mtrs. Length 2.50mtrs.

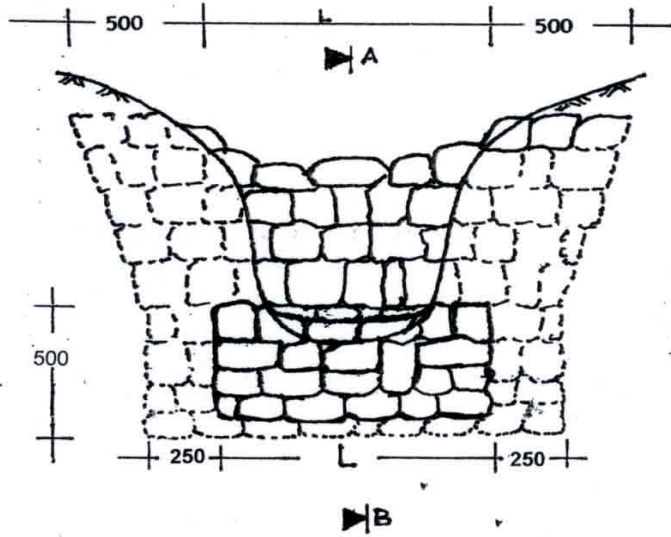
| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.65 | CUM | | |
| | Pick Work @ 50% | 1.32 | CUM | 53.50 | 70.62 |
| | Jumper Work @ 50% | 1.33 | CUM | 98.00 | 130.34 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.50 | CUM | 30.60 | 45.90 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.8 | CUM | 49.05 | 137.34 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 3.28 | CUM | 87.25 | 286.18 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.82 | CUM | 85.00 | 69.70 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DRY STONE CHECK DAM HEIGHT - 1.25 M

ALL DIMENSIONS ARE IN MM



SECTION AT A-B



D/S ELEVATION

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 1.50 | 1.50 | 0.50 | CUM | 1.13 |
| | ii Apron | 1 | 1.00 | 1.25 | 0.30 | CUM | 0.38 |
| | | | | | | Total | 1.50 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.5 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 1.50 | 1.5 | 0.50 | CUM | 1.13 |
| | ii Apron | 1 | 1.00 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.44 |
| | | | | | | Total | 1.57 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.00+1.50}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 2.18 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.50 | CUM | | |
| | Pick Work @ 50% | 0.75 | CUM | 53.50 | 40.13 |
| | Jumper Work @ 50% | 0.75 | CUM | 98.00 | 73.50 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.65 | 57.32 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.56 | CUM | 49.05 | 76.52 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 2.18 | CUM | 87.25 | 190.21 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.54 | CUM | 85.00 | 45.90 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.25mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 1.75 | 1.50 | 0.50 | CUM | 1.31 |
| | ii Apron | 1 | 1.25 | 1.25 | 0.30 | CUM | 0.47 |
| | | | | | | Total | 1.78 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.5 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 1.75 | 1.5 | 0.50 | CUM | |
| | ii Apron | 1 | 1.25 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.55 |
| | | | | | | Total | 0.55 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{2.25+1.75}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 2.5 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.25mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.77 | CUM | | |
| | Pick Work @ 50% | 0.88 | CUM | 53.50 | 47.08 |
| | Jumper Work @ 50% | 0.89 | CUM | 98.00 | 87.22 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.65 | 57.32 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.86 | CUM | 49.05 | 91.23 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 2.50 | CUM | 87.25 | 218.13 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.62 | CUM | 85.00 | 52.70 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.00 | 1.50 | 0.50 | CUM | 1.50 |
| | ii Apron | 1 | 1.50 | 1.25 | 0.30 | CUM | 0.56 |
| | | | | | | Total | 2.06 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.5 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.00 | 1.5 | 0.50 | CUM | 1.50 |
| | ii Apron | 1 | 1.50 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.66 |
| | | | | | | Total | 2.16 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{2.50+2.00}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 2.81 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.06 | CUM | | |
| | Pick Work @ 50% | 1.03 | CUM | 53.50 | 55.11 |
| | Jumper Work @ 50% | 1.03 | CUM | 98.00 | 100.94 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.60 | 57.22 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.16 | CUM | 49.05 | 105.95 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 2.81 | CUM | 87.25 | 245.17 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.70 | CUM | 85.00 | 59.50 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.75mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.25 | 1.50 | 0.50 | CUM | 1.69 |
| | ii Apron | 1 | 1.75 | 1.25 | 0.30 | CUM | 0.66 |
| | | | | | | Total | 2.34 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.5 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.25 | 1.5 | 0.50 | CUM | 1.69 |
| | ii Apron | 1 | 1.75 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.77 |
| | | | | | | Total | 2.46 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.75+2.25}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 3.12 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 1.75mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.34 | CUM | | |
| | Pick Work @ 50% | 1.17 | CUM | 53.50 | 62.60 |
| | Jumper Work @ 50% | 1.17 | CUM | 98.00 | 114.66 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.65 | 57.32 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.45 | CUM | 49.05 | 120.17 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 3.12 | CUM | 87.25 | 272.22 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.78 | CUM | 85.00 | 66.30 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.50 | 1.50 | 0.50 | CUM | 1.88 |
| | ii Apron | 1 | 2.00 | 1.25 | 0.30 | CUM | 0.75 |
| | | | | | | Total | 2.63 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.50 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.50 | 1.50 | 0.50 | CUM | 1.88 |
| | ii Apron | 1 | 2.00 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.88 |
| | | | | | | Total | 2.76 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{3.00+2.50}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 3.43 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.62 | CUM | | |
| | Pick Work @ 50% | 1.31 | CUM | 53.50 | 70.09 |
| | Jumper Work @ 50% | 1.31 | CUM | 98.00 | 128.38 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.65 | 57.32 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.75 | CUM | 49.05 | 134.89 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 3.43 | CUM | 87.25 | 299.27 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 0.85 | CUM | 85.00 | 72.25 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.00 | 1.50 | 0.50 | CUM | 2.25 |
| | ii Apron | 1 | 2.50 | 1.25 | 0.30 | CUM | 0.94 |
| | | | | | | Total | 3.19 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.50 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.00 | 1.50 | 0.50 | CUM | 2.25 |
| | ii Apron | 1 | 2.50 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 1.09 |
| | | | | | | Total | 3.34 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{3.25+3.00}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 4.06 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 3.19 | CUM | | |
| | Pick Work @ 50% | 1.59 | CUM | 53.50 | 85.07 |
| | Jumper Work @ 50% | 1.60 | CUM | 98.00 | 156.80 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.65 | 57.32 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 3.34 | CUM | 49.05 | 163.83 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 4.06 | CUM | 87.25 | 354.24 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 1.01 | CUM | 85.00 | 85.85 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.50 | 1.50 | 0.50 | CUM | 2.63 |
| | ii Apron | 1 | 3.00 | 1.25 | 0.30 | CUM | 1.13 |
| | | | | | | Total | 3.75 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.50 | 1.25 | CUM | 1.88 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.50 | 1.50 | 0.50 | CUM | 2.63 |
| | ii Apron | 1 | 3.00 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 1.31 |
| | | | | | | Total | 3.94 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structure | 1 | $\frac{3.50+4.00}{2}$ | $\frac{0.50+1.50}{2}$ | 1.25 | CUM | 4.68 |

ABSTRACT OF LABOUR COST

Dry Stone Check Dam

Ht. 1.25 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres , and desposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 3.75 | CUM | | |
| | Pick Work @ 50% | 1.87 | CUM | 53.50 | 100.05 |
| | Jumper Work @ 50% | 1.88 | CUM | 98.00 | 184.24 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.87 | CUM | 30.65 | 57.32 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 3.93 | CUM | 49.05 | 192.77 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in Super Structure. | 4.68 | CUM | 87.25 | 408.33 |
| 5 | Breaking of Boulder Stones @ 25 % of the qty. of stone masonry in Super Structure. | 1.17 | CUM | 85.00 | 99.45 |
| 6 | Carriage of Boulder Stones along the Nala/Khad O/D _____ Rmt. Ave. by M/L or Mules. | | | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & Carriage of Boulder Stones. 741. | | | | |

STANDARD ESTIMATES

OF

WIRE CRATE / GABION

CHECK DAMS

GENERAL ABSTRACT

Name of work: _____

WDC _____ G.P. _____

MMWS/ Village : _____ During _____

1 Labour:

2 Material Cost:

3 Others:

Grand Total:

Amount in words (Rupees _____)

1 Lead:

2 Mode of carriage of material

3 Agency:- Department Labour.

Certified that:

1. Leads and carriage shown in the estimates are true to the best of my knowledge.

2. Cost of material provided in the estimate is as per the lowest cost prevailing in the market.

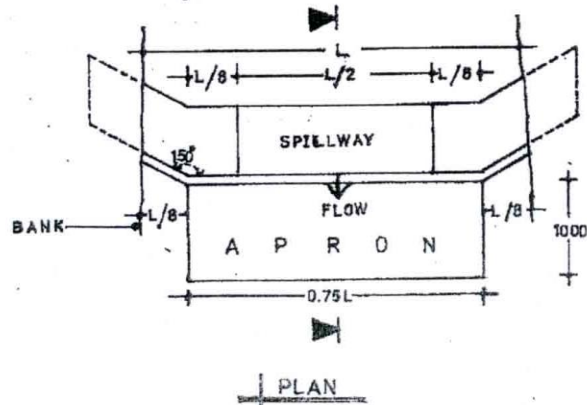
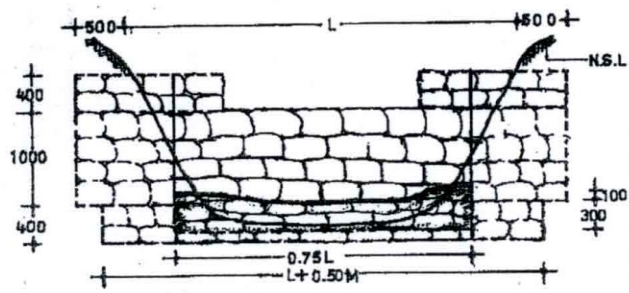
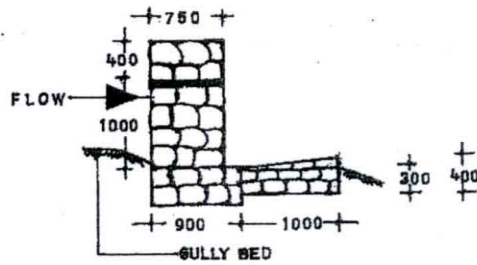
Signature:

Village In-charge

Member of WWMC

CRATE WIRE CHECK DAM (HT.=1.00 MTR.)

ALL DIMENSIONS ARE IN MM



DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.65 | 0.90 | 0.40 | CUM | 0.95 |
| | ii Apron | 1 | 1.50 | 1.00 | 0.30 | CUM | 0.45 |
| | | | | | | Total | 1.40 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 0.75 | 1.40 | CUM | 1.31 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.65 | 0.90 | 0.40 | CUM | 0.95 |
| | ii Apron | 1 | 1.50 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.53 |
| | | | | | | Total | 1.48 |
| 4 | Construction of super structure of Check dam. | 1 | 3.22 | 0.75 | 1.40 | CUM | 3.38 |
| | Duduction of spilway | 1 | 1.00 | 0.75 | 0.40 | CUM | (-)0.30 |
| | | | | | | Total | 3.08 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 0.77 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 2.31 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 2.65 | 0.90 | 0.00 | Sqm | 2.39 |
| | Sides(i/c 15 c.m. top) | 1 | 2.65 | 0.00 | 0.95 | Sqm | 2.52 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Top/Bottom | 2 | 1.50 | 1.00 | 0.00 | Sqm | 3.00 |
| | d/s Side | 1 | 1.50 | 0.00 | 0.40 | Sqm | 0.60 |
| | Ends | 2 | 0.00 | 1.00 | $\frac{0.30+0.40}{2}$ | Sqm | 0.70 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 3.22 | 0.75 | 0.00 | Sqm | 2.42 |
| | Bottom | 1 | 3.22-2.65 | 0.75 | 0.00 | Sqm | 0.43 |
| | Sides | 2 | 3.22 | 0.00 | 1.40 | Sqm | 9.02 |
| | Ends | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Ends of spilway | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Deduction of Spilway Side | 2 | 1.00 | 0.00 | 1.40 | Sqm | (-)2.80 |
| | | | | | | Total | 23.18 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 23.18 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 4.56 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.40 | CUM | | |
| | Pick Work @ 50% | 0.70 | CUM | 53.50 | 37.45 |
| | Jumper Work @ 50% | 0.70 | CUM | 98.00 | 68.60 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.48 | CUM | 49.05 | 72.59 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 0.77 | CUM | 87.25 | 67.18 |
| | ii) Dry hand packed boulder stone filling in super structure. | 2.31 | CUM | 49.05 | 113.31 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 23.17 | Sqm | 9.05 | 209.69 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 23.17 | Sqm | 10.95 | 253.71 |
| 7 | Tipping of wire crates i/c equipment. | 4.56 | CUM | 21.85 | 99.64 |
| 8 | Breaking of boulder stones | 0.77 | CUM | 85.00 | 65.45 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.051 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.051 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.17 | 0.90 | 0.40 | CUM | 1.14 |
| | ii Apron | 1 | 1.88 | 1.00 | 0.30 | CUM | 0.56 |
| | | | | | | Total | 1.71 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 0.75 | 1.40 | CUM | 1.31 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.17 | 0.90 | 0.40 | CUM | 1.14 |
| | ii Apron | 1 | 1.88 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.66 |
| | | | | | | Total | 1.80 |
| 4 | Construction of super structure of Check dam. | 1 | 3.75 | 0.75 | 1.40 | CUM | 3.94 |
| | Duduction of spilway | 1 | 1.25 | 0.75 | 0.40 | CUM | (-)0.38 |
| | | | | | | Total | 3.56 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 0.89 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 2.67 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.17 | 0.90 | 0.00 | Sqm | 2.85 |
| | Sides(i/c 15 c.m. top) | 1 | 3.17 | 0.00 | 0.95 | Sqm | 3.01 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Bottom | 1 | 3.75-3.17 | 0.75 | 0.00 | Sqm | 0.43 |
| | iii) Apron -- Top | 2 | 1.88 | 1.00 | 0.00 | Sqm | 3.76 |
| | d/s Side | 1 | 1.88 | 0.00 | 0.40 | Sqm | 0.75 |
| | Ends | 2 | 0.00 | 1.00 | 0.30+0.40 | Sqm | 0.70 |
| | | | | | 2 | | |
| | iv) Super Structure | | | | | | |
| | Top/Bottom | 1 | 3.75 | 0.75 | 0.00 | Sqm | 2.81 |
| | Sides | 2 | 3.75 | 0.00 | 1.40 | Sqm | 10.50 |
| | Ends | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Ends of spilway | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Deduction of Spilway Side | 2 | 1.25 | 0.00 | 1.40 | Sqm | (-)1.00 |
| | | | | | | Total | 27.23 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 27.23 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 5.36 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.70 | CUM | | |
| | Pick Work @ 50% | 0.85 | CUM | 53.50 | 45.48 |
| | Jumper Work @ 50% | 0.85 | CUM | 98.00 | 83.30 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.71 | CUM | 30.65 | 52.41 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 1.80 | CUM | 49.05 | 88.29 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 0.89 | CUM | 87.25 | 77.65 |
| | ii) Dry hand packed boulder stone filling in super structure. | 2.67 | CUM | 49.05 | 130.96 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 27.23 | Sqm | 9.05 | 246.43 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 27.23 | Sqm | 10.95 | 298.17 |
| 7 | Tipping of wire crates i/c equipment. | 5.36 | CUM | 21.85 | 117.12 |
| 8 | Breaking of boulder stones | 0.89 | CUM | 85.00 | 75.65 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.058 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.058 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.69 | 0.90 | 0.40 | CUM | 1.33 |
| | ii Apron | 1 | 2.25 | 1.00 | 0.30 | CUM | 0.68 |
| | | | | | | Total | 2.00 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 0.75 | 1.40 | CUM | 1.31 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.69 | 0.90 | 0.40 | CUM | 1.33 |
| | ii Apron | 1 | 2.25 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.79 |
| | | | | | | Total | 2.12 |
| 4 | Construction of super structure of Check dam. | 1 | 4.26 | 0.75 | 1.40 | CUM | 4.47 |
| | Duduction of spilway | 1 | 1.50 | 0.75 | 0.40 | CUM | (-)0.45 |
| | | | | | | Total | 4.02 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 1.00 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 3.02 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.69 | 0.90 | 0.40 | Sqm | 3.32 |
| | Sides(i/c 15 c.m. top) | 1 | 3.69 | 0.00 | 0.95 | Sqm | 3.51 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Top/Bottom | 2 | 2.25 | 1.00 | 0.00 | Sqm | 4.50 |
| | d/s Side | 1 | 2.25 | 0.00 | 0.40 | Sqm | 0.90 |
| | Ends | 2 | 0.00 | 1.00 | $\frac{0.30+0.40}{2}$ | Sqm | 0.70 |
| | iii) Super Structure | | | | | | |
| | Top | 2 | 4.26 | 0.75 | 0.00 | Sqm | 6.39 |
| | Bottom | 1 | 4.26-3.69 | 0.75 | 0.00 | Sqm | 0.43 |
| | Sides | 2 | 4.26 | 0.00 | 1.40 | Sqm | 11.93 |
| | Ends | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Ends of spilway | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Deduction of Spilway Side | 2 | 1.50 | 0.00 | 1.40 | Sqm | (-)1.20 |
| | | | | | | Total | 30.70 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 30.70 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 6.13 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.00 | CUM | | |
| | Pick Work @ 50% | 1.00 | CUM | 53.50 | 53.50 |
| | Jumper Work @ 50% | 1.00 | CUM | 98.00 | 98.00 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.11 | CUM | 49.00 | 103.39 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.00 | CUM | 87.25 | 87.25 |
| | ii) Dry hand packed boulder stone filling in super structure. | 3.02 | CUM | 49.05 | 148.13 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 30.70 | Sqm | 9.05 | 277.84 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 30.70 | Sqm | 10.95 | 336.17 |
| 7 | Tipping of wire crates i/c equipment. | 6.13 | CUM | 21.85 | 133.94 |
| 8 | Breaking of boulder stones | 1.00 | CUM | 85.00 | 85.00 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.068 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.068 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 4.21 | 0.90 | 0.40 | CUM | 1.52 |
| | ii Apron | 1 | 2.63 | 1.00 | 0.30 | CUM | 0.79 |
| | | | | | | Total | 2.30 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 0.75 | 1.40 | CUM | 1.31 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 4.21 | 0.90 | 0.40 | CUM | 1.52 |
| | ii Apron | 1 | 2.63 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 0.92 |
| | | | | | | Total | 2.44 |
| 4 | Construction of super structure of Check dam. | 1 | 4.79 | 0.75 | 1.40 | CUM | 5.02 |
| | Duduction of spilway | 1 | 1.75 | 0.75 | 0.40 | CUM | (-)0.52 |
| | | | | | | Total | 4.50 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 1.12 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 3.38 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.21 | 0.90 | 0.00 | Sqm | 3.79 |
| | Sides(i/c 15 c.m. top) | 1 | 4.21 | 0.00 | 0.95 | Sqm | 4.00 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Top/Bottom | 2 | 2.63 | 1.00 | 0.00 | Sqm | 5.26 |
| | d/s Side | 1 | 2.63 | 0.00 | 0.40 | Sqm | 1.05 |
| | Ends | 2 | 0.00 | 1.00 | $\frac{0.30+0.40}{2}$ | Sqm | 0.70 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 4.79 | 0.75 | 0.00 | Sqm | 3.59 |
| | Bottom | 1 | 4.79-4.21 | 0.75 | 0.00 | Sqm | 0.43 |
| | Sides | 2 | 4.79 | 0.00 | 1.40 | Sqm | 13.41 |
| | Ends | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Ends of spilway | 2 | 0.00 | 0.75 | 0.40 | Sqm | 0.60 |
| | Deduction of Spilway Side | 2 | 1.75 | 0.00 | 0.40 | Sqm | (-)1.40 |
| | | | | | | Total | 34.24 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 34.24 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 6.93 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.31 | CUM | | |
| | Pick Work @ 50% | 1.15 | CUM | 53.50 | 61.53 |
| | Jumper Work @ 50% | 1.16 | CUM | 98.00 | 113.68 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.43 | CUM | 49.05 | 119.19 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.12 | CUM | 87.25 | 97.72 |
| | ii) Dry hand packed boulder stone filling in super structure. | 3.38 | CUM | 49.05 | 165.79 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 34.24 | Sqm | 9.05 | 309.87 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 34.24 | Sqm | 10.95 | 374.93 |
| 7 | Tipping of wire crates i/c equipment. | 6.93 | CUM | 21.85 | 151.42 |
| 8 | Breaking of boulder stones | 1.12 | CUM | 85.00 | 95.20 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.076 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.076 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.60 | CUM | | |
| | Pick Work @ 50% | 1.30 | CUM | 53.50 | 69.55 |
| | Jumper Work @ 50% | 1.30 | CUM | 98.00 | 127.40 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.75 | CUM | 49.05 | 134.89 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.24 | CUM | 87.25 | 108.19 |
| | ii) Dry hand packed boulder stone filling in super structure. | 3.72 | CUM | 49.05 | 182.47 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 37.71 | Sqm | 9.05 | 341.28 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 37.71 | Sqm | 10.95 | 412.92 |
| 7 | Tipping of wire crates i/c equipment. | 7.71 | CUM | 21.85 | 168.46 |
| 8 | Breaking of boulder stones | 1.24 | CUM | 85.00 | 105.40 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.084 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.084 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.73 | 0.90 | 0.00 | Sqm | 4.26 |
| | Sides(i/c 15 c.m. top) | 1 | 4.73 | 0.00 | 0.95 | Sqm | 4.49 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Top/Bottom | 2 | 3.00 | 1.00 | 0.00 | Sqm | 6.00 |
| | d/s Side | 1 | 3.00 | 0.00 | 0.40 | Sqm | 1.20 |
| | Ends | 2 | 0.00 | 1.00 | $\frac{0.30+0.40}{2}$ | Sqm | 0.70 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 5.30 | 0.75 | 0.00 | Sqm | 3.98 |
| | Bottom | 1 | 5.30-4.73 | 0.75 | 0.00 | Sqm | 0.43 |
| | Sides | 2 | 5.30 | 0.00 | 1.40 | Sqm | 14.84 |
| | Ends | 2 | 0.00 | 0.75 | 1.40 | Sqm | 2.10 |
| | Ends of spilway | 2 | 0.00 | 0.75 | 0.40 | Sqm | 0.60 |
| | Deduction of Spilway Side | 2 | 2.00 | 0.00 | 0.40 | Sqm | (-)1.60 |
| | | | | | | Total | 37.71 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 37.71 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 7.71 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.60 | CUM | | |
| | Pick Work @ 50% | 1.30 | CUM | 53.50 | 69.55 |
| | Jumper Work @ 50% | 1.30 | CUM | 98.00 | 127.40 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.75 | CUM | 49.05 | 134.89 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.24 | CUM | 87.25 | 108.19 |
| | ii) Dry hand packed boulder stone filling in super structure. | 3.72 | CUM | 49.05 | 182.47 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 37.71 | Sqm | 9.05 | 341.28 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 37.71 | Sqm | 10.95 | 412.92 |
| 7 | Tipping of wire crates i/c equipment. | 7.71 | CUM | 21.85 | 168.46 |
| 8 | Breaking of boulder stones | 1.24 | CUM | 85.00 | 105.40 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.084 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.084 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 4.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.25 | 0.90 | 0.40 | CUM | 1.89 |
| | ii Apron | 1 | 3.38 | 1.00 | 0.30 | CUM | 1.01 |
| | | | | | | Total | 2.90 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 0.75 | 1.40 | CUM | 1.31 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.25 | 0.90 | 0.40 | CUM | 1.89 |
| | ii Apron | 1 | 3.38 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 1.18 |
| | | | | | | Total | 3.07 |
| 4 | Construction of super structure of Check dam. | 1 | 5.83 | 0.75 | 1.40 | CUM | 6.12 |
| | Duduction of spilway | 1 | 2.25 | 0.75 | 0.40 | CUM | (-)0.68 |
| | | | | | | Total | 5.44 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 1.36 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 4.08 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 4.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.25 | 0.90 | 0.00 | Sqm | 4.73 |
| | Sides(i/c 15 c.m. top) | 2 | 5.25 | 0.00 | 0.95 | Sqm | 4.98 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Top/Bottom | 2 | 3.38 | 1.00 | 0.00 | Sqm | 6.76 |
| | d/s Side | 1 | 3.38 | 0.00 | 0.40 | Sqm | 1.35 |
| | Ends | 2 | 0.00 | 1.00 | $\frac{0.30+0.40}{2}$ | Sqm | 0.70 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 5.83 | 0.75 | 0.00 | Sqm | 4.37 |
| | Bottom | 1 | 5.83-5.25 | 0.75 | 0.00 | Sqm | 0.43 |
| | Sides | 2 | 5.83 | 0.00 | 1.40 | Sqm | 16.32 |
| | Ends | 3 | 0.00 | 0.75 | 1.40 | Sqm | 3.15 |
| | Deduction of Spilway Side | 2 | 2.00 | 0.00 | 0.40 | Sqm | (-)1.80 |
| | | | | | | Total | 42.06 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 42.06 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 8.51 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 4.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.90 | CUM | | |
| | Pick Work @ 50% | 1.45 | CUM | 53.50 | 77.58 |
| | Jumper Work @ 50% | 1.45 | CUM | 98.00 | 142.10 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 3.07 | CUM | 49.05 | 150.58 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.36 | CUM | 87.25 | 118.66 |
| | ii) Dry hand packed boulder stone filling in super structure. | 4.08 | CUM | 49.05 | 200.12 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 42.06 | Sqm | 9.05 | 380.64 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 42.06 | Sqm | 10.95 | 460.56 |
| 7 | Tipping of wire crates i/c equipment. | 8.51 | CUM | 21.85 | 185.94 |
| 8 | Breaking of boulder stones | 1.36 | CUM | 85.00 | 115.60 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.093 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.093 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.77 | 0.90 | 0.40 | CUM | 2.08 |
| | ii Apron | 1 | 3.75 | 1.00 | 0.30 | CUM | 1.13 |
| | | | | | | Total | 3.20 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 0.75 | 1.40 | CUM | 1.31 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.77 | 0.90 | 0.40 | CUM | 2.08 |
| | ii Apron | 1 | 3.75 | 1.00 | $\frac{0.30+0.40}{2}$ | CUM | 1.31 |
| | | | | | | Total | 3.39 |
| 4 | Construction of super structure of Check dam. | 1 | 6.34 | 0.75 | 1.40 | CUM | 6.66 |
| | Duduction of spilway | 1 | 2.50 | 0.75 | 0.40 | CUM | (-)0.75 |
| | | | | | | Total | 5.91 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 1.48 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 4.43 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.00 mtrs. Length 5.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.77 | 0.90 | 0.00 | Sqm | 5.19 |
| | Sides(i/c 15 c.m. top) | 1 | 5.77 | 0.00 | 0.95 | Sqm | 5.48 |
| | Ends | 2 | 0.00 | 0.90 | 0.40 | Sqm | 0.72 |
| | ii) Apron -- Top/Bottom | 2 | 3.75 | 1.00 | 0.00 | Sqm | 7.50 |
| | d/s Side | 1 | 3.75 | 0.00 | 0.40 | Sqm | 1.50 |
| | Ends | 2 | 0.00 | 1.00 | $\frac{0.30+0.40}{2}$ | Sqm | 0.70 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 6.34 | 0.75 | 0.00 | Sqm | 4.76 |
| | Bottom | 1 | 6.34-5.77 | 0.75 | 0.00 | Sqm | 0.43 |
| | Sides | 2 | 6.34 | 0.00 | 1.40 | Sqm | 17.75 |
| | Ends | 3 | 0.00 | 0.75 | 1.40 | Sqm | 3.15 |
| | Deduction of Spilway Side | 2 | 2.50 | 0.00 | 0.40 | Sqm | (-)2.00 |
| | | | | | | Total | 55.69 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 55.69 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 9.29 |

ABSTRACT OF LABOUR COST

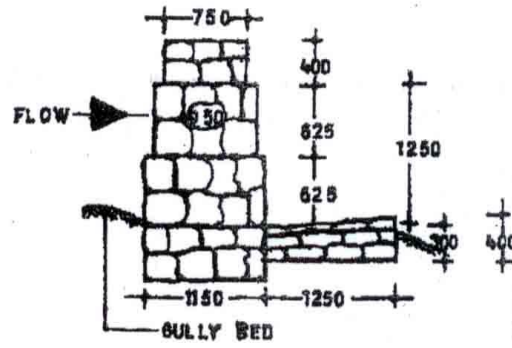
Wire Crate Check Dam

Ht. 1.00 mtrs. Length 5.00 mtrs.

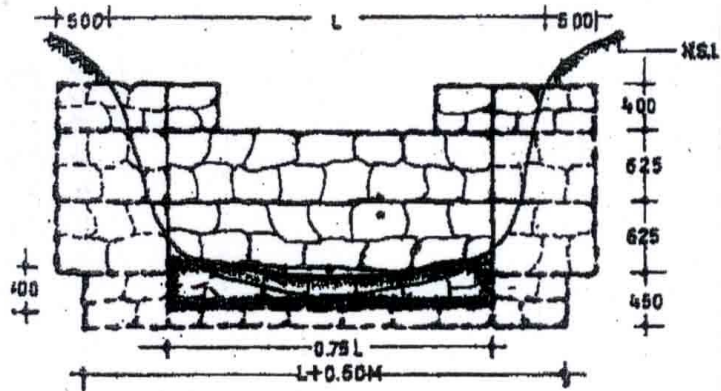
| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 3.20 | CUM | | |
| | Pick Work @ 50% | 1.60 | CUM | 53.50 | 85.60 |
| | Jumper Work @ 50% | 1.60 | CUM | 98.00 | 156.80 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 1.31 | CUM | 30.65 | 40.15 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 3.38 | CUM | 49.05 | 165.79 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.48 | CUM | 87.25 | 129.13 |
| | ii) Dry hand packed boulder stone filling in super structure. | 4.43 | CUM | 49.05 | 217.29 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 45.88 | Sqm | 9.05 | 415.21 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 45.88 | Sqm | 10.95 | 502.39 |
| 7 | Tipping of wire crates i/c equipment. | 9.29 | CUM | 21.85 | 202.99 |
| 8 | Breaking of boulder stones | 1.48 | CUM | 85.00 | 125.80 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.102 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.102 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

CRATE WIRE CHECK DAM (HT.=1.25MTR.)

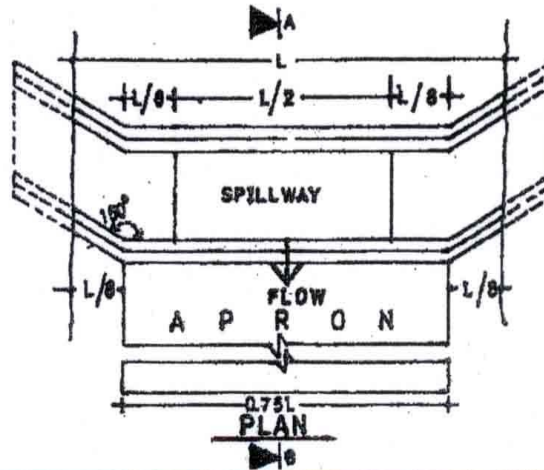
ALL DIMENSIONS ARE IN MM



SECTION AT A-B



D/S ELEVATION



PLAN

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 2.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.65 | 1.15 | 0.45 | CUM | 1.37 |
| | ii Apron | 1 | 1.50 | 1.25 | 0.30 | CUM | 0.56 |
| | | | | | | Total | 1.93 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.15 | 1.65 | CUM | 2.37 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.65 | 1.15 | 0.45 | CUM | 1.37 |
| | ii Apron | 1 | 1.50 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.66 |
| | | | | | | Total | 2.03 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 3.22 | 1.15 | 0.63 | CUM | 2.31 |
| | 2nd Block | 1 | 3.22 | 0.95 | 0.63 | CUM | 1.91 |
| | 3rd Block | 2 | 1.11 | 0.75 | 0.40 | CUM | 0.67 |
| | | | | | | Total | 4.89 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 1.22 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 3.66 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 2.65 | 1.15 | 0.00 | Sqm | 3.05 |
| | Sides(i/c 15 c.m. top) | 2 | 2.65 | 0.00 | 0.45 | Sqm | 2.39 |
| | Ends | 2 | 0.00 | 1.15 | 0.45 | Sqm | 1.04 |
| | ii) Apron -- Top/Bottom | 2 | 1.50 | 1.25 | 0.00 | Sqm | 3.75 |
| | d/s Side | 1 | 1.50 | 0.00 | 0.40 | Sqm | 0.60 |
| | Ends | 2 | 0.00 | 1.25 | $\frac{0.30+0.40}{2}$ | Sqm | 0.88 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 3.22 | 1.15 | 0.00 | Sqm | 3.70 |
| | Bottom | 1 | 3.22-2.65 | 1.15 | 0.00 | Sqm | 0.66 |
| | Sides | 2 | 3.22 | 0.00 | 0.63 | Sqm | 4.03 |
| | Ends | 2 | 0.00 | 1.15 | 0.63 | Sqm | 1.44 |
| | Super Structure-(2nd Block) | | | | | | |
| | Top/Bottom | 1 | 3.22 | 0.95 | 0.00 | Sqm | 3.06 |
| | Sides | 2 | 3.22 | 0.00 | 0.625 | Sqm | 4.03 |
| | Ends | 2 | 0.00 | 0.95 | 0.625 | Sqm | 1.19 |
| | Super Structure-(3rd Block) | | | | | | |
| | Top/Bottom | 2 | 1.11 | 0.75 | 0.00 | Sqm | 1.67 |
| | Sides | 2x2 | 1.11 | 0.00 | 0.40 | Sqm | 1.78 |
| | Ends | 4 | 0.00 | 0.75 | 0.40 | Sqm | 1.20 |
| | | | | | | Total | 34.44 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 34.44 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 6.91 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 2.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 1.93 | CUM | | |
| | Pick Work @ 50% | 0.96 | CUM | 53.50 | 51.36 |
| | Jumper Work @ 50% | 0.97 | CUM | 98.00 | 95.06 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 2.37 | CUM | 30.65 | 72.64 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.03 | CUM | 49.05 | 99.57 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.22 | CUM | 87.25 | 106.45 |
| | ii) Dry hand packed boulder stone filling in super structure. | 3.66 | CUM | 49.05 | 179.52 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 34.44 | Sqm | 9.05 | 311.68 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 34.44 | Sqm | 10.95 | 377.12 |
| 7 | Tipping of wire crates i/c equipment. | 6.91 | CUM | 21.85 | 150.98 |
| 8 | Breaking of boulder stones | 1.22 | CUM | 85.00 | 103.70 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.077 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.077 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | CUM | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 2.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.15 | 0.45 | CUM | 1.64 |
| | ii Apron | 1 | 1.88 | 1.25 | 0.30 | CUM | 0.71 |
| | | | | | | Total | 2.35 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.15 | 1.65 | CUM | 2.37 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.15 | 0.45 | CUM | 1.64 |
| | ii Apron | 1 | 1.88 | 1.25 | $\frac{0.30+0.40}{2}$ | CUM | 0.82 |
| | | | | | | Total | 2.46 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 3.75 | 1.15 | 0.63 | CUM | 2.70 |
| | 2nd Block | 1 | 3.75 | 0.95 | 0.63 | CUM | 2.23 |
| | 3rd Block | 2 | 1.25 | 0.75 | 0.40 | CUM | 0.75 |
| | | | | | | Total | 5.67 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | CUM | 1.42 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | CUM | 4.25 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.17 | 1.15 | 0.00 | Sqm | 3.65 |
| | Sides(i/c 15 c.m. top) | 2 | 3.17 | 0.00 | 0.45 | Sqm | 2.85 |
| | Ends | 2 | 0.00 | 1.15 | 0.45 | Sqm | 1.04 |
| | ii) Apron -- Top/Bottom | 2 | 1.88 | 1.25 | 0.00 | Sqm | 4.70 |
| | d/s Side | 1 | 1.88 | 0.00 | 0.40 | Sqm | 0.75 |
| | Ends | 2 | 0.00 | 1.25 | $\frac{0.30+0.40}{2}$ | Sqm | 0.88 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 3.75 | 1.15 | 0.00 | Sqm | 4.31 |
| | Bottom | 1 | 3.75-3.17 | 1.15 | 0.00 | Sqm | 0.66 |
| | Sides | 2 | 3.75 | 0.00 | 0.63 | Sqm | 4.69 |
| | Ends | 2 | 0.00 | 1.15 | 0.63 | Sqm | 1.44 |
| | Super Structure-(2nd Block) | | | | | | |
| | Top/Bottom | 1 | 3.75 | 0.95 | 0.00 | Sqm | 3.56 |
| | Sides | 2 | 3.75 | 0.00 | 0.625 | Sqm | 4.69 |
| | Ends | 2 | 0.00 | 0.95 | 0.625 | Sqm | 1.19 |
| | Super Structure-(3rd Block) | | | | | | |
| | Top/Bottom | 2 | 1.25 | 0.75 | 0.00 | Sqm | 1.88 |
| | Sides | 2x2 | 1.25 | 0.00 | 0.40 | Sqm | 2.00 |
| | Ends | 4 | 0.00 | 0.75 | 0.40 | Sqm | 1.20 |
| | | | | | | Total | 39.48 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 39.48 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | CUM | 8.13 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 2.50 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.35 | Cum | | |
| | Pick Work @ 50% | 1.17 | Cum | 53.50 | 62.60 |
| | Jumper Work @ 50% | 1.18 | Cum | 98.00 | 115.64 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 2.37 | Cum | 30.65 | 72.64 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.46 | Cum | 49.05 | 120.66 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.42 | Cum | 87.25 | 123.90 |
| | ii) Dry hand packed boulder stone filling in super structure. | 4.25 | Cum | 49.05 | 208.46 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 39.48 | Sqm | 9.05 | 357.29 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 39.48 | Sqm | 10.95 | 432.31 |
| 7 | Tipping of wire crates i/c equipment. | 8.13 | Cum | 21.85 | 177.64 |
| 8 | Breaking of boulder stones | 1.42 | Cum | 85.00 | 120.70 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.088 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.088 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 3.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.69 | 1.15 | 0.45 | Cum | 1.91 |
| | ii Apron | 1 | 2.25 | 1.25 | 0.30 | Cum | 0.84 |
| | | | | | | Total | 2.75 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.15 | 1.65 | Cum | 2.37 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.69 | 1.15 | 0.45 | Cum | 1.91 |
| | ii Apron | 1 | 2.25 | 1.25 | $\frac{0.30+0.40}{2}$ | Cum | 0.98 |
| | | | | | | Total | 2.89 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 4.26 | 1.15 | 0.63 | Cum | 3.06 |
| | 2nd Block | 1 | 4.26 | 0.95 | 0.63 | Cum | 2.53 |
| | 3rd Block | 2 | 1.38 | 0.75 | 0.40 | Cum | 0.83 |
| | | | | | | Total | 6.42 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 1.60 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 4.82 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.69 | 1.15 | 0.00 | Sqm | 4.24 |
| | Sides(i/c 15 c.m. top) | 2 | 3.69 | 0.00 | 0.45 | Sqm | 3.32 |
| | Ends | 2 | 0.00 | 1.15 | 0.45 | Sqm | 1.04 |
| | ii) Apron -- Top/Bottom | 2 | 2.25 | 1.25 | 0.00 | Sqm | 5.63 |
| | d/s Side | 1 | 2.25 | 0.00 | 0.40 | Sqm | 0.90 |
| | Ends | 2 | 0.00 | 1.25 | $\frac{0.30+0.40}{2}$ | Sqm | 0.88 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 4.26 | 1.15 | 0.00 | Sqm | 4.90 |
| | Bottom | 1 | 4.26-3.69 | 1.15 | 0.00 | Sqm | 0.66 |
| | Sides | 2 | 4.26 | 0.00 | 0.63 | Sqm | 5.33 |
| | Ends | 2 | 0.00 | 1.15 | 0.63 | Sqm | 1.44 |
| | Super Structure- (2nd Block) | | | | | | |
| | Top/Bottom | 1 | 4.26 | 0.95 | 0.00 | Sqm | 4.05 |
| | Sides | 2 | 4.26 | 0.00 | 0.625 | Sqm | 5.33 |
| | Ends | 2 | 0.00 | 0.95 | 0.625 | Sqm | 1.19 |
| | Super Structure- (3rd Block) | | | | | | |
| | Top/Bottom | 2 | 1.38 | 0.75 | 0.00 | Sqm | 2.07 |
| | Sides | 2x2 | 1.38 | 0.00 | 0.40 | Sqm | 2.21 |
| | Ends | 4 | 0.00 | 0.75 | 0.40 | Sqm | 1.20 |
| | | | | | | Total | 44.37 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 44.37 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 9.30 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 3.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.74 | Cum | | |
| | Pick Work @ 50% | 1.37 | Cum | 53.50 | 73.30 |
| | Jumper Work @ 50% | 1.37 | Cum | 98.00 | 134.26 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 2.37 | Cum | 30.65 | 72.64 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.88 | Cum | 49.05 | 141.26 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.60 | Cum | 87.25 | 139.60 |
| | ii) Dry hand packed boulder stone filling in super structure. | 4.82 | Cum | 49.05 | 236.42 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 44.39 | Sqm | 9.05 | 401.73 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 44.39 | Sqm | 10.95 | 486.07 |
| 7 | Tipping of wire crates i/c equipment. | 9.30 | Cum | 21.85 | 203.21 |
| 8 | Breaking of boulder stones | 1.60 | Cum | 85.00 | 136.00 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.099 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.099 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 3.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 4.21 | 1.15 | 0.45 | Cum | 2.18 |
| | ii Apron | 1 | 2.63 | 1.25 | 0.30 | Cum | 0.99 |
| | | | | | | Total | 3.16 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.15 | 1.65 | Cum | 2.37 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 4.21 | 1.15 | 0.45 | Cum | 2.18 |
| | ii Apron | 1 | 2.63 | 1.25 | $\frac{0.30+0.40}{2}$ | Cum | 1.15 |
| | | | | | | Total | 3.33 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 4.79 | 1.15 | 0.63 | Cum | 3.44 |
| | 2nd Block | 1 | 4.79 | 0.95 | 0.63 | Cum | 2.84 |
| | 3rd Block | 2 | 1.52 | 0.75 | 0.40 | Cum | 0.91 |
| | | | | | | Total | 7.20 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 1.80 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 5.39 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.21 | 1.15 | 0.00 | Sqm | 4.84 |
| | Sides(i/c 15 c.m. top) | 2 | 4.21 | 0.00 | 0.45 | Sqm | 3.79 |
| | Ends | 2 | 0.00 | 1.15 | 0.45 | Sqm | 1.04 |
| | ii) Apron -- Top/Bottom | 2 | 2.63 | 1.25 | 0.00 | Sqm | 6.58 |
| | d/s Side | 1 | 2.63 | 0.00 | 0.40 | Sqm | 1.05 |
| | Ends | 2 | 0.00 | 1.25 | $\frac{0.30+0.40}{2}$ | Sqm | 0.88 |
| | iii) Super Structure | | | | | | |
| | Top | 1 | 4.79 | 1.15 | 0.00 | Sqm | 5.51 |
| | Bottom | 1 | 4.79-4.21 | 1.15 | 0.00 | Sqm | 0.66 |
| | Sides | 2 | 4.79 | 0.00 | 0.63 | Sqm | 5.99 |
| | Ends | 2 | 0.00 | 1.15 | 0.63 | Sqm | 1.44 |
| | Super Structure-(2nd Block) | | | | | | |
| | Top/Bottom | 1 | 4.79 | 0.95 | 0.00 | Sqm | 4.55 |
| | Sides | 2 | 4.79 | 0.00 | 0.625 | Sqm | 5.99 |
| | Ends | 2 | 0.00 | 0.95 | 0.625 | Sqm | 1.19 |
| | Super Structure-(3rd Block) | | | | | | |
| | Top/Bottom | 2 | 1.52 | 0.75 | 0.00 | Sqm | 2.28 |
| | Sides | 2x2 | 1.52 | 0.00 | 0.40 | Sqm | 2.43 |
| | Ends | 4 | 0.00 | 0.75 | 0.40 | Sqm | 1.20 |
| | | | | | | Total | 49.40 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 49.40 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 10.52 |

| | | | | |
|---|---------------------------------------------------|--|-----|-------|
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | |
| | | | | Total |

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ABSTRACT OF LABOUR COST

Retaining/Breast Wall

Ht. 1.00 mtrs. Length 1.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------|--------|
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 mtrs. clear from the edge of excavation and then returning the stacked soil in 15cm layers, where required into plinth, sides of foundation etc. consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed within a lead of 20 mtrs. in pick and jumper work. | 0.38 | 75.75 | Cum | 28.79 |
| 2 | Laying of cement concrete 1:6:12 in foundation, under floor pavement i/c ramming & curing complete. | 0.16 | 156.70 | Cum | 25.07 |
| 3 | Random rubble stone masonry in cement mortar (1:6) in foundation of retaining / breast walls & abutments of culvert etc. i/c dressing of stone and curing complete. | | | | |
| | a) 50% dry stone masonry | 0.075 | 87.15 | Cum | 6.54 |
| | b) 50% in cement mortar (1:6) | 0.075 | 307.30 | Cum | 23.05 |
| 4 | Random rubble stone masonry in cement mortar (1:6) in super structure upto 3 mtrs., height i/c scaffolding, rough dressing and curing complete. | | | | |
| | a) 50% dry stone masonry | 0.27 | 87.15 | Cum | 23.53 |
| | b) 50% in cement mortar (1:6) | 0.28 | 353.8 | Cum | 99.06 |
| 5 | Laying of cement conc. 1:2:4 on the top of retaining walls / breast walls i/c curing complete. | 0.02 | 156.7 | Cum | 3.13 |

DETAIL OF MEASUREMENTS

Dry Stone Check Dam

Ht. 0.75 mtrs. Length 1.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres, stacking the excavated soil not more than 3 metres clear from the edge of excavation and then returning the stacked soil in 15 cm. layers, where required into plinth, sides of foundation etc., consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 1.50 | 1.00 | 0.30 | CUM | 0.45 |
| | ii Apron | 1 | 1.00 | 0.75 | 0.30 | CUM | 0.22 |
| | | | | | | Total | 0.67 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | 0.50 | 1.00 | 0.90 | CUM | 0.90 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 1.50 | 1.00 | 0.30 | CUM | 0.45 |
| | ii Apron | 1 | 1.00 | 0.75 | $\frac{0.30+0.40}{2}$ | CUM | 0.26 |
| | | | | | | Total | 0.71 |
| 4 | Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing in: | | | | | | |
| | Super Structue | 1 | $\frac{2.00+1.50}{2}$ | $\frac{0.50+1.00}{2}$ | 0.75 | CUM | 0.98 |

4

| | | | | |
|---|---------------------------------------|-------------------------------|-----|------|
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | Cum | 9.57 |
|---|---------------------------------------|-------------------------------|-----|------|

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DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.35 | 0.60 | Cum | 2.57 |
| | ii Apron | 1 | 1.88 | 1.50 | 0.30 | Cum | 0.85 |
| | | | | | | Total | 3.41 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.35 | 0.60 | Cum | 2.57 |
| | ii Apron | 1 | 1.88 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 0.99 |
| | | | | | | Total | 3.56 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 3.75 | 1.35 | 0.75 | Cum | 3.80 |
| | 2nd Block | 1 | 3.75 | 1.05 | 0.75 | Cum | 2.95 |
| | 3rd Block | 2 | 1.25 | 0.75 | 0.50 | Cum | 0.94 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 3.57 | Cum | | |
| | Pick Work @ 50% | 1.78 | Cum | 53.50 | 95.23 |
| | Jumper Work @ 50% | 1.79 | Cum | 98.00 | 175.42 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 2.37 | Cum | 30.65 | 72.64 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 3.75 | Cum | 49.05 | 183.94 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.99 | Cum | 87.25 | 173.63 |
| | ii) Dry hand packed boulder stone filling in super structure. | 5.96 | Cum | 49.05 | 292.34 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 54.31 | Sqm | 9.05 | 491.51 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 54.31 | Sqm | 10.95 | 594.69 |
| 7 | Tipping of wire crates i/c equipment. | 11.70 | Cum | 21.85 | 255.65 |
| 8 | Breaking of boulder stones | 1.99 | Cum | 85.00 | 169.15 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.121 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.121 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 4.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.25 | 1.15 | 0.45 | Cum | 2.72 |
| | ii Apron | 1 | 3.38 | 1.25 | 0.30 | Cum | 1.27 |
| | | | | | | Total | 3.98 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.15 | 1.65 | Cum | 2.37 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.25 | 1.15 | 0.45 | Cum | 2.72 |
| | ii Apron | 1 | 3.38 | 1.25 | $\frac{0.30+0.40}{2}$ | Cum | 1.48 |
| | | | | | | Total | 4.20 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 5.83 | 1.15 | 0.63 | Cum | 4.19 |
| | 2nd Block | 1 | 5.83 | 0.95 | 0.63 | Cum | 3.46 |
| | 3rd Block | 2 | 1.79 | 0.75 | 0.40 | Cum | 1.07 |
| | | | | | | Total | 8.73 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.18 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 6.54 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.25 | 1.15 | 0.00 | Sqm | 6.04 |
| | Sides(i/c 15 c.m. top) | 2 | 5.25 | 0.00 | 0.45 | Sqm | 4.73 |
| | Ends | 3 | 0.00 | 1.15 | 0.45 | Sqm | 1.55 |
| | ii) Apron -- Top/Bottom | 2 | 3.38 | 1.25 | 0.00 | Sqm | 8.45 |
| | d/s Side | 1 | 3.38 | 0.00 | 0.40 | Sqm | 1.35 |
| | Ends | 2 | 0.00 | 1.25 | $\frac{0.30+0.40}{2}$ | Sqm | 0.88 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 5.83 | 1.15 | 0.00 | Sqm | 6.70 |
| | Bottom | 1 | 5.83-5.25 | 1.15 | 0.00 | Sqm | 0.66 |
| | Sides | 2 | 5.83 | 0.00 | 0.63 | Sqm | 7.29 |
| | Ends | 3 | 0.00 | 1.15 | 0.63 | Sqm | 2.16 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 5.83 | 0.95 | 0.00 | Sqm | 5.54 |
| | Sides | 2 | 5.83 | 0.00 | 0.625 | Sqm | 7.29 |
| | Ends | 3 | 0.00 | 0.95 | 0.625 | Sqm | 1.78 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.79 | 0.75 | 0.00 | Sqm | 2.69 |
| | Sides | 2x2 | 1.79 | 0.00 | 0.40 | Sqm | 2.86 |
| | Ends | 4 | 0.00 | 0.75 | 0.40 | Sqm | 1.20 |
| | | | | | | Total | 61.16 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 61.16 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 12.91 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 4.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 3.97 | Cum | | |
| | Pick Work @ 50% | 1.98 | Cum | 53.50 | 105.93 |
| | Jumper Work @ 50% | 1.99 | Cum | 98.00 | 195.02 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 2.37 | Cum | 30.65 | 72.64 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 4.19 | Cum | 49.05 | 205.52 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.18 | Cum | 87.25 | 190.21 |
| | ii) Dry hand packed boulder stone filling in super structure. | 6.54 | Cum | 49.05 | 320.79 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 61.14 | Sqm | 9.05 | 553.32 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 61.14 | Sqm | 10.95 | 669.48 |
| 7 | Tipping of wire crates i/c equipment. | 12.91 | Cum | 21.85 | 282.08 |
| 8 | Breaking of boulder stones | 2.18 | Cum | 85.00 | 185.30 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.136 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.136 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.77 | 1.15 | 0.45 | Cum | 2.99 |
| | ii Apron | 1 | 3.75 | 1.25 | 0.30 | Cum | 1.41 |
| | | | | | | Total | 4.39 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.15 | 1.65 | Cum | 2.37 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.77 | 1.15 | 0.45 | Cum | 2.99 |
| | ii Apron | 1 | 3.75 | 1.25 | $\frac{0.30+0.40}{2}$ | Cum | 1.64 |
| | | | | | | Total | 4.63 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 6.34 | 1.15 | 0.63 | Cum | 4.56 |
| | 2nd Block | 1 | 6.34 | 0.95 | 0.63 | Cum | 3.76 |
| | 3rd Block | 2 | 1.92 | 0.75 | 0.40 | Cum | 1.15 |
| | | | | | | Total | 9.47 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.36 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 7.10 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.77 | 1.15 | 0.00 | Sqm | 6.64 |
| | Sides(i/c 15 c.m. top) | 2 | 5.77 | 0.00 | 0.45 | Sqm | 5.19 |
| | Ends | 3 | 0.00 | 1.15 | 0.45 | Sqm | 1.55 |
| | ii) Apron -- Top/Bottom | 2 | 3.75 | 1.25 | 0.00 | Sqm | 9.38 |
| | d/s Side | 1 | 3.75 | 0.00 | 0.40 | Sqm | 1.50 |
| | Ends | 2 | 0.00 | 1.25 | 0.30+0.40 | Sqm | 0.88 |
| | | | | | 2 | | |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 6.34 | 1.15 | 0.00 | Sqm | 7.29 |
| | Bottom | 1 | 6.34-5.77 | 1.15 | 0.00 | Sqm | 0.66 |
| | Sides | 2 | 6.34 | 0.00 | 0.625 | Sqm | 7.93 |
| | Ends | 3 | 0.00 | 1.15 | 0.625 | Sqm | 2.16 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 6.34 | 0.95 | 0.00 | Sqm | 6.02 |
| | Sides | 2 | 6.34 | 0.00 | 0.625 | Sqm | 7.93 |
| | Ends | 3 | 0.00 | 0.95 | 0.625 | Sqm | 1.78 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.92 | 0.75 | 0.00 | Sqm | 2.88 |
| | Sides | 2x2 | 1.92 | 0.00 | 0.40 | Sqm | 3.07 |
| | Ends | 4 | 0.00 | 0.75 | 0.40 | Sqm | 1.20 |
| | | | | | | Total | 66.05 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 66.05 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 14.08 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.25 mtrs. Length 5.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 4.38 | Cum | | |
| | Pick Work @ 50% | 2.19 | Cum | 53.50 | 117.17 |
| | Jumper Work @ 50% | 2.19 | Cum | 98.00 | 214.62 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 2.37 | Cum | 30.65 | 72.64 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 4.62 | Cum | 49.05 | 226.61 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.36 | Cum | 87.25 | 205.91 |
| | ii) Dry hand packed boulder stone filling in super structure. | 7.10 | Cum | 49.05 | 348.26 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 66.04 | Sqm | 9.05 | 597.66 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 66.04 | Sqm | 10.95 | 723.14 |
| 7 | Tipping of wire crates i/c equipment. | 14.08 | Cum | 21.85 | 307.65 |
| 8 | Breaking of boulder stones | 2.36 | Cum | 85.00 | 200.60 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.147 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.147 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 2.65 | 1.35 | 0.60 | Cum | 2.15 |
| | ii Apron | 1 | 1.50 | 1.50 | 0.30 | Cum | 0.68 |
| | | | | | | Total | 2.82 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 2.65 | 1.35 | 0.60 | Cum | 2.15 |
| | ii Apron | 1 | 1.50 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 0.79 |
| | | | | | | Total | 2.94 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 3.22 | 1.35 | 0.75 | Cum | 3.26 |
| | 2nd Block | 1 | 3.22 | 1.05 | 0.75 | Cum | 2.54 |
| | 3rd Block | 2 | 1.11 | 0.75 | 0.50 | Cum | 0.83 |
| | | | | | | Total | 6.63 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 1.68 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 4.95 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 2.65 | 1.35 | 0.00 | Sqm | 3.58 |
| | Sides(i/c 15 c.m. top) | 2 | 2.65 | 0.00 | 0.60 | Sqm | 3.18 |
| | Ends | 2 | 0.00 | 1.35 | 0.60 | Sqm | 1.62 |
| | ii) Apron -- Top/Bottom | 2 | 1.50 | 1.50 | 0.00 | Sqm | 4.50 |
| | d/s Side | 1 | 1.50 | 0.00 | 0.40 | Sqm | 0.60 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 3.22 | 1.35 | 0.00 | Sqm | 4.35 |
| | (1st Block) Bottom | 1 | 3.22-2.65 | 1.35 | 0.00 | Sqm | 0.77 |
| | Sides | 2 | 3.22 | 0.00 | 0.75 | Sqm | 4.83 |
| | Ends | 2 | 0.00 | 1.35 | 0.75 | Sqm | 2.03 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 3.22 | 1.05 | 0.00 | Sqm | 3.38 |
| | Sides | 2 | 3.22 | 0.00 | 0.75 | Sqm | 4.83 |
| | Ends | 2 | 0.00 | 1.05 | 0.75 | Sqm | 1.58 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.11 | 0.75 | 0.00 | Sqm | 1.67 |
| | Sides | 2x2 | 1.11 | 0.00 | 0.50 | Sqm | 2.22 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 41.67 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 41.67 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 9.57 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 2.83 | Cum | | |
| | Pick Work @ 50% | 1.42 | Cum | 53.50 | 75.97 |
| | Jumper Work @ 50% | 1.41 | Cum | 98.00 | 138.18 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 2.94 | Cum | 49.05 | 144.21 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.68 | Cum | 87.25 | 146.58 |
| | ii) Dry hand packed boulder stone filling in super structure. | 4.95 | Cum | 49.05 | 242.80 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 41.69 | Sqm | 9.05 | 377.29 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 41.69 | Sqm | 10.95 | 456.51 |
| 7 | Tipping of wire crates i/c equipment. | 9.57 | Cum | 21.85 | 209.10 |
| 8 | Breaking of boulder stones | 1.68 | Cum | 85.00 | 142.80 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.093 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.093 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.35 | 0.60 | Cum | 2.57 |
| | ii Apron | 1 | 1.88 | 1.50 | 0.30 | Cum | 0.85 |
| | | | | | | Total | 3.41 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.35 | 0.60 | Cum | 2.57 |
| | ii Apron | 1 | 1.88 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 0.99 |
| | | | | | | Total | 3.56 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 3.75 | 1.35 | 0.75 | Cum | 3.80 |
| | 2nd Block | 1 | 3.75 | 1.05 | 0.75 | Cum | 2.95 |
| | 3rd Block | 2 | 1.25 | 0.75 | 0.50 | Cum | 0.94 |
| | | | | | | Total | 7.69 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 1.92 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 5.77 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.17 | 1.35 | 0.00 | Sqm | 4.28 |
| | Sides(i/c 15 c.m. top) | 2 | 3.17 | 0.00 | 0.60 | Sqm | 3.80 |
| | Ends | 2 | 0.00 | 1.35 | 0.60 | Sqm | 1.62 |
| | ii) Apron -- Top/Bottom | 2 | 1.88 | 1.50 | 0.00 | Sqm | 5.64 |
| | d/s Side | 1 | 1.88 | 0.00 | 0.40 | Sqm | 0.75 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 3.75 | 1.35 | 0.00 | Sqm | 5.06 |
| | (1st Block) Bottom | 1 | 3.75-3.17 | 1.35 | 0.00 | Sqm | 0.78 |
| | Sides | 2 | 3.75 | 1.35 | 0.75 | Sqm | 5.63 |
| | Ends | 2 | 0.00 | 1.35 | 0.75 | Sqm | 2.03 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 3.75 | 1.05 | 0.00 | Sqm | 3.94 |
| | Sides | 2 | 3.75 | 0.00 | 0.75 | Sqm | 5.63 |
| | Ends | 2 | 0.00 | 1.05 | 0.75 | Sqm | 1.58 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.25 | 0.75 | 0.00 | Sqm | 1.88 |
| | Sides | 2x2 | 1.25 | 0.00 | 0.50 | Sqm | 2.50 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 47.66 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 47.66 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 11.24 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 3.41 | Cum | | |
| | Pick Work @ 50% | 1.70 | Cum | 53.50 | 90.95 |
| | Jumper Work @ 50% | 1.71 | Cum | 98.00 | 167.58 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 3.55 | Cum | 49.05 | 174.13 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 1.92 | Cum | 87.25 | 167.52 |
| | ii) Dry hand packed boulder stone filling in super structure. | 5.77 | Cum | 49.05 | 283.02 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 47.67 | Sqm | 9.05 | 431.41 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 47.67 | Sqm | 10.95 | 521.99 |
| 7 | Tipping of wire crates i/c equipment. | 11.24 | Cum | 21.85 | 245.59 |
| 8 | Breaking of boulder stones | 1.92 | Cum | 85.00 | 163.20 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.106 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.106 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 3.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.69 | 1.35 | 0.60 | Cum | 2.99 |
| | ii Apron | 1 | 2.25 | 1.50 | 0.30 | Cum | 1.01 |
| | | | | | | Total | 4.00 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.69 | 1.35 | 0.60 | Cum | 2.99 |
| | ii Apron | 1 | 2.25 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 1.19 |
| | | | | | | Total | 4.18 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 4.26 | 1.35 | 0.75 | Cum | 4.31 |
| | 2nd Block | 1 | 4.26 | 1.05 | 0.75 | Cum | 3.35 |
| | 3rd Block | 2 | 4.26 | 0.75 | 0.50 | Cum | 3.20 |
| | | | | | | Total | 10.86 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.18 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 6.52 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.69 | 1.35 | 0.00 | Sqm | 4.98 |
| | Sides(i/c 15 c.m. top) | 2 | 3.69 | 0.00 | 0.60 | Sqm | 4.43 |
| | Ends | 2 | 0.00 | 1.35 | 0.60 | Sqm | 1.62 |
| | ii) Apron -- Top/Bottom | 2 | 2.25 | 1.50 | 0.00 | Sqm | 6.75 |
| | d/s Side | 1 | 2.25 | 0.00 | 0.40 | Sqm | 0.90 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 4.26 | 1.35 | 0.00 | Sqm | 5.75 |
| | (1st Block) Bottom | 1 | 4.26-3.69 | 1.35 | 0.00 | Sqm | 0.77 |
| | Sides | 2 | 4.26 | 0.00 | 0.75 | Sqm | 6.39 |
| | Ends | 2 | 0.00 | 1.35 | 0.75 | Sqm | 2.03 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 4.26 | 1.05 | 0.00 | Sqm | 4.47 |
| | Sides | 2 | 4.26 | 0.00 | 0.75 | Sqm | 6.39 |
| | Ends | 2 | 0.00 | 1.05 | 0.75 | Sqm | 1.58 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.38 | 0.75 | 0.00 | Sqm | 2.07 |
| | Sides | 2x2 | 1.38 | 0.00 | 0.50 | Sqm | 2.76 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 53.43 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 53.43 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 12.87 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 4.00 | Cum | | |
| | Pick Work @ 50% | 2.00 | Cum | 53.50 | 107.00 |
| | Jumper Work @ 50% | 2.00 | Cum | 98.00 | 196.00 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 4.17 | Cum | 49.05 | 204.54 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.18 | Cum | 87.25 | 190.21 |
| | ii) Dry hand packed boulder stone filling in super structure. | 6.62 | Cum | 49.05 | 324.71 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 53.43 | Sqm | 9.05 | 483.54 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 53.43 | Sqm | 10.95 | 585.06 |
| 7 | Tipping of wire crates i/c equipment. | 12.87 | Cum | 21.85 | 281.21 |
| 8 | Breaking of boulder stones | 2.18 | Cum | 85.00 | 185.30 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.119 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.119 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 3.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|-------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 4.21 | 1.35 | 0.60 | Cum | 3.41 |
| | ii Apron | 1 | 2.63 | 1.50 | 0.30 | Cum | 1.18 |
| | | | | | | Total | 4.59 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 4.21 | 1.35 | 0.60 | Cum | 3.41 |
| | ii Apron | 1 | 2.63 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 1.38 |
| | | | | | | Total | 4.79 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 4.79 | 1.35 | 0.75 | Cum | 4.85 |
| | 2nd Block | 1 | 4.79 | 1.05 | 0.75 | Cum | 3.77 |
| | 3rd Block | 2 | 1.52 | 0.75 | 0.50 | Cum | 1.14 |
| | | | | | | Total | 9.76 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.44 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 7.32 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.21 | 1.35 | 0.00 | Sqm | 5.68 |
| | Sides(i/c 15 c.m. top) | 2 | 4.21 | 0.00 | 0.60 | Sqm | 5.05 |
| | Ends | 2 | 0.00 | 1.35 | 0.60 | Sqm | 1.62 |
| | ii) Apron -- Top/Bottom | 2 | 2.63 | 1.50 | 0.00 | Sqm | 7.89 |
| | d/s Side | 1 | 2.63 | 0.00 | 0.40 | Sqm | 1.05 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 4.79 | 1.35 | 0.00 | Sqm | 6.47 |
| | (1st Block) Bottom | 2 | 4.79-4.21 | 1.35 | 0.00 | Sqm | 0.78 |
| | Sides | 2 | 4.79 | 0.00 | 0.75 | Sqm | 7.19 |
| | Ends | 2 | 0.00 | 1.35 | 0.75 | Sqm | 2.03 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 4.79 | 1.05 | 0.00 | Sqm | 5.03 |
| | Sides | 2 | 4.79 | 0.00 | 0.75 | Sqm | 7.19 |
| | Ends | 2 | 0.00 | 1.05 | 0.75 | Sqm | 1.58 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.52 | 0.75 | 0.00 | Sqm | 2.28 |
| | Sides | 2x2 | 1.52 | 0.00 | 0.50 | Sqm | 3.04 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 59.41 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 59.41 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 14.55 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 4.59 | Cum | | |
| | Pick Work @ 50% | 2.29 | Cum | 53.50 | 122.52 |
| | Jumper Work @ 50% | 2.30 | Cum | 98.00 | 225.40 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 4.79 | Cum | 49.05 | 234.95 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.44 | Cum | 87.25 | 212.89 |
| | ii) Dry hand packed boulder stone filling in super structure. | 7.32 | Cum | 49.05 | 359.05 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 59.42 | Sqm | 9.05 | 537.75 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 59.42 | Sqm | 10.95 | 650.65 |
| 7 | Tipping of wire crates i/c equipment. | 14.55 | Cum | 21.85 | 317.92 |
| 8 | Breaking of boulder stones | 2.44 | Cum | 85.00 | 207.40 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.132 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.132 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 4.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 4.73 | 1.35 | 0.60 | Cum | 3.83 |
| | ii Apron | 1 | 3.00 | 1.50 | 0.30 | Cum | 1.35 |
| | | | | | | Total | 5.18 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 4.73 | 1.35 | 0.60 | Cum | 3.83 |
| | ii Apron | 1 | 3.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 1.58 |
| | | | | | | Total | 5.41 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 5.30 | 1.35 | 0.75 | Cum | 5.37 |
| | 2nd Block | 1 | 5.30 | 1.05 | 0.75 | Cum | 4.17 |
| | 3rd Block | 2 | 1.65 | 0.75 | 0.50 | Cum | 1.24 |
| | | | | | | Total | 10.78 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.70 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 8.08 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.73 | 1.35 | 0.00 | Sqm | 6.39 |
| | Sides(i/c 15 c.m. top) | 2 | 4.73 | 0.00 | 0.60 | Sqm | 5.68 |
| | Ends | 2 | 0.00 | 1.35 | 0.60 | Sqm | 1.62 |
| | ii) Apron -- Top/Bottom | 2 | 3.00 | 1.50 | 0.00 | Sqm | 9.00 |
| | d/s Side | 1 | 3.00 | 0.00 | 0.40 | Sqm | 1.20 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 5.30 | 1.35 | 0.00 | Sqm | 7.16 |
| | (1st Block) Bottom | 1 | 5.30-4.73 | 1.35 | 0.00 | Sqm | 0.77 |
| | Sides | 2 | 5.30 | 0.00 | 0.75 | Sqm | 7.95 |
| | Ends | 2 | 0.00 | 1.35 | 0.75 | Sqm | 2.03 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 5.30 | 1.05 | 0.00 | Sqm | 5.57 |
| | Sides | 2 | 5.30 | 0.00 | 0.75 | Sqm | 7.95 |
| | Ends | 2 | 0.00 | 1.05 | 0.75 | Sqm | 1.58 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.65 | 0.75 | 0.00 | Sqm | 2.48 |
| | Sides | 2x2 | 1.65 | 0.00 | 0.50 | Sqm | 3.30 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 65.20 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 65.20 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 16.19 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 4.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 5.18 | Cum | | |
| | Pick Work @ 50% | 2.59 | Cum | 53.50 | 138.57 |
| | Jumper Work @ 50% | 2.59 | Cum | 98.00 | 253.82 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 5.41 | Cum | 49.05 | 265.36 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.70 | Cum | 87.25 | 235.58 |
| | ii) Dry hand packed boulder stone filling in super structure. | 8.08 | Cum | 49.05 | 396.32 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 65.20 | Sqm | 9.05 | 590.06 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 65.20 | Sqm | 10.95 | 713.94 |
| 7 | Tipping of wire crates i/c equipment. | 16.19 | Cum | 21.85 | 353.75 |
| 8 | Breaking of boulder stones | 2.70 | Cum | 85.00 | 229.50 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.145 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.145 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 4.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.25 | 1.35 | 0.60 | Cum | 4.25 |
| | ii Apron | 1 | 3.38 | 1.50 | 0.30 | Cum | 1.52 |
| | | | | | | Total | 5.77 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.25 | 1.35 | 0.60 | Cum | 4.25 |
| | ii Apron | 1 | 3.38 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 1.77 |
| | | | | | | Total | 6.02 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 5.83 | 1.35 | 0.75 | Cum | 5.90 |
| | 2nd Block | 1 | 5.83 | 1.05 | 0.75 | Cum | 4.59 |
| | 3rd Block | 2 | 1.79 | 0.75 | 0.50 | Cum | 1.34 |
| | | | | | | Total | 11.84 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.96 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 8.87 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 4.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.25 | 1.35 | 0.00 | Sqm | 7.09 |
| | Sides(i/c 15 c.m. top) | 2 | 5.25 | 0.00 | 0.60 | Sqm | 6.30 |
| | Ends | 3 | 0.00 | 1.35 | 0.60 | Sqm | 2.43 |
| | ii) Apron -- Top/Bottom | 2 | 3.38 | 1.50 | 0.00 | Sqm | 10.14 |
| | d/s Side | 1 | 3.38 | 0.00 | 0.40 | Sqm | 1.35 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 5.83 | 1.35 | 0.00 | Sqm | 7.87 |
| | (1st Block) Bottom | 2 | 5.83-5.25 | 1.35 | 0.00 | Sqm | 0.78 |
| | Sides | 2 | 5.83 | 0.00 | 0.75 | Sqm | 8.75 |
| | Ends | 3 | 0.00 | 1.35 | 0.75 | Sqm | 3.04 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 5.83 | 1.05 | 0.00 | Sqm | 6.12 |
| | Sides | 2 | 5.83 | 0.00 | 0.75 | Sqm | 8.75 |
| | Ends | 3 | 0.00 | 1.05 | 0.75 | Sqm | 2.36 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.79 | 0.75 | 0.00 | Sqm | 2.69 |
| | Sides | 2x2 | 1.79 | 0.00 | 0.50 | Sqm | 3.58 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 73.79 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 73.79 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 17.85 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 4.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 5.77 | Cum | | |
| | Pick Work @ 50% | 2.88 | Cum | 53.50 | 154.08 |
| | Jumper Work @ 50% | 2.89 | Cum | 98.00 | 283.22 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 6.02 | Cum | 49.05 | 295.28 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.96 | Cum | 87.25 | 258.26 |
| | ii) Dry hand packed boulder stone filling in super structure. | 8.87 | Cum | 49.05 | 435.07 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 73.78 | Sqm | 9.05 | 667.71 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 73.78 | Sqm | 10.95 | 807.89 |
| 7 | Tipping of wire crates i/c equipment. | 17.85 | Cum | 21.85 | 390.02 |
| 8 | Breaking of boulder stones | 2.96 | Cum | 85.00 | 251.60 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.164 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.164 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.77 | 1.35 | 0.60 | Cum | 4.67 |
| | ii Apron | 1 | 3.75 | 1.50 | 0.30 | Cum | 1.69 |
| | | | | | | Total | 6.36 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.35 | 2.00 | Cum | 3.38 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.77 | 1.35 | 0.60 | Cum | 4.67 |
| | ii Apron | 1 | 3.75 | 1.50 | $\frac{0.30+0.40}{2}$ | Cum | 1.97 |
| | | | | | | Total | 6.64 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 6.34 | 1.35 | 0.75 | Cum | 6.42 |
| | 2nd Block | 1 | 6.34 | 1.05 | 0.75 | Cum | 4.99 |
| | 3rd Block | 2 | 1.92 | 0.75 | 0.50 | Cum | 1.44 |
| | | | | | | Total | 12.85 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 3.21 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 9.64 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 5.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.77 | 1.35 | 0.00 | Sqm | 7.79 |
| | Sides(i/c 15 c.m. top) | 2 | 5.77 | 0.00 | 0.60 | Sqm | 6.92 |
| | Ends | 3 | 0.00 | 1.35 | 0.60 | Sqm | 2.43 |
| | ii) Apron -- Top/Bottom | 2 | 3.75 | 1.50 | 0.00 | Sqm | 11.25 |
| | d/s Side | 1 | 3.75 | 0.00 | 0.40 | Sqm | 1.50 |
| | Ends | 2 | 0.00 | 1.50 | $\frac{0.30+0.40}{2}$ | Sqm | 1.05 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 6.34 | 1.35 | 0.00 | Sqm | 8.56 |
| | (1st Block) Bottom | 2 | 6.34-5.77 | 1.35 | 0.00 | Sqm | 0.77 |
| | Sides | 2 | 6.34 | 0.00 | 0.75 | Sqm | 9.51 |
| | Ends | 3 | 0.00 | 1.35 | 0.75 | Sqm | 3.04 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 6.34 | 1.05 | 0.00 | Sqm | 6.66 |
| | Sides | 2 | 6.34 | 0.00 | 0.75 | Sqm | 9.51 |
| | Ends | 3 | 0.00 | 1.05 | 0.75 | Sqm | 2.36 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.92 | 0.75 | 0.00 | Sqm | 2.88 |
| | Sides | 2x2 | 1.92 | 0.00 | 0.50 | Sqm | 3.84 |
| | Ends | 4 | 0.00 | 0.75 | 0.50 | Sqm | 1.50 |
| | | | | | | Total | 79.57 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 79.56 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 19.49 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.50 mtrs. Length 5.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 6.36 | Cum | | |
| | Pick Work @ 50% | 3.18 | Cum | 53.50 | 170.13 |
| | Jumper Work @ 50% | 3.18 | Cum | 98.00 | 311.64 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 3.38 | Cum | 30.65 | 103.60 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 6.64 | Cum | 49.05 | 325.69 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 3.21 | Cum | 87.25 | 280.07 |
| | ii) Dry hand packed boulder stone filling in super structure. | 9.64 | Cum | 49.05 | 472.84 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 79.56 | Sqm | 9.05 | 720.02 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 79.56 | Sqm | 10.95 | 871.18 |
| 7 | Tipping of wire crates i/c equipment. | 19.49 | Cum | 21.85 | 425.86 |
| 8 | Breaking of boulder stones | 3.21 | Cum | 85.00 | 272.85 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.177 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.177 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 2.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.60 | 0.75 | Cum | 3.80 |
| | ii Apron | 1 | 1.88 | 1.75 | 0.30 | Cum | 0.99 |
| | | | | | | Total | 4.79 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.60 | 2.25 | Cum | 4.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.17 | 1.60 | 0.75 | Cum | 3.80 |
| | ii Apron | 1 | 1.88 | 1.75 | $\frac{0.30+0.40}{2}$ | Cum | 1.15 |
| | | | | | | Total | 4.95 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 3.75 | 1.60 | 0.875 | Cum | 5.25 |
| | 2nd Block | 1 | 3.75 | 1.30 | 0.875 | Cum | 4.27 |
| | 3rd Block | 2 | 1.25 | 1.00 | 0.50 | Cum | 1.25 |
| | | | | | | Total | 10.77 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 2.70 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 8.07 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.17 | 1.60 | 0.00 | Sqm | 5.07 |
| | Sides(i/c 15 c.m. top) | 2 | 3.17 | 0.00 | 0.75 | Sqm | 4.76 |
| | Ends | 2 | 0.00 | 1.60 | 0.75 | Sqm | 2.40 |
| | ii) Apron -- Top/Bottom | 2 | 1.88 | 1.75 | 0.00 | Sqm | 6.58 |
| | d/s Side | 1 | 1.88 | 0.00 | 0.40 | Sqm | 0.75 |
| | Ends | 2 | 0.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Sqm | 1.23 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 3.75 | 1.60 | 0.00 | Sqm | 6.00 |
| | (1st Block) Bottom | 2 | 3.75-3.17 | 1.60 | 0.00 | Sqm | 0.93 |
| | Sides | 2 | 3.75 | 0.00 | 0.875 | Sqm | 6.56 |
| | Ends | 2 | 0.00 | 1.60 | 0.875 | Sqm | 2.80 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 3.75 | 1.30 | 0.00 | Sqm | 4.88 |
| | Sides | 2 | 3.75 | 0.00 | 0.875 | Sqm | 6.56 |
| | Ends | 2 | 0.00 | 1.30 | 0.875 | Sqm | 2.28 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.25 | 1.00 | 0.00 | Sqm | 2.50 |
| | Sides | 2x2 | 1.25 | 0.00 | 0.50 | Sqm | 2.50 |
| | Ends | 4 | 0.00 | 1.00 | 0.50 | Sqm | 2.00 |
| | | | | | | Total | 57.79 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 57.79 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 15.72 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 2.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 4.79 | Cum | | |
| | Pick Work @ 50% | 2.39 | Cum | 53.50 | 127.87 |
| | Jumper Work @ 50% | 2.40 | Cum | 98.00 | 235.20 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 4.50 | Cum | 30.65 | 137.93 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 4.95 | Cum | 49.05 | 242.80 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 2.70 | Cum | 87.25 | 235.58 |
| | ii) Dry hand packed boulder stone filling in super structure. | 8.07 | Cum | 49.05 | 395.83 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 57.79 | Sqm | 9.05 | 523.00 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 57.79 | Sqm | 10.95 | 632.80 |
| 7 | Tipping of wire crates i/c equipment. | 15.72 | Cum | 21.85 | 343.48 |
| 8 | Breaking of boulder stones | 2.70 | Cum | 85.00 | 229.50 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.128 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.128 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 3.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 3.69 | 1.60 | 0.75 | Cum | 4.43 |
| | ii Apron | 1 | 2.25 | 1.75 | 0.30 | Cum | 1.18 |
| | | | | | | Total | 5.61 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.60 | 2.25 | Cum | 4.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 3.69 | 1.60 | 0.75 | Cum | 4.43 |
| | ii Apron | 1 | 2.25 | 1.75 | $\frac{0.30+0.40}{2}$ | Cum | 1.37 |
| | | | | | | Total | 5.80 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 4.26 | 1.60 | 0.875 | Cum | 5.96 |
| | 2nd Block | 1 | 4.26 | 1.30 | 0.875 | Cum | 4.85 |
| | 3rd Block | 2 | 1.38 | 1.00 | 0.50 | Cum | 1.38 |
| | | | | | | Total | 12.19 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 3.05 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 9.13 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 3.69 | 1.60 | 0.00 | Sqm | 5.90 |
| | Sides(i/c 15 c.m. top) | 2 | 3.69 | 0.00 | 0.75 | Sqm | 5.54 |
| | Ends | 2 | 0.00 | 1.60 | 0.75 | Sqm | 2.40 |
| | ii) Apron -- Top/Bottom | 2 | 2.25 | 1.75 | 0.00 | Sqm | 7.88 |
| | d/s Side | 1 | 2.25 | 0.00 | 0.40 | Sqm | 0.90 |
| | Ends | 2 | 0.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Sqm | 1.23 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 4.26 | 1.60 | 0.00 | Sqm | 6.82 |
| | (1st Block) Bottom | 2 | 4.26-3.69 | 1.60 | 0.00 | Sqm | 0.91 |
| | Sides | 2 | 4.26 | 0.00 | 0.875 | Sqm | 7.46 |
| | Ends | 2 | 0.00 | 1.60 | 0.875 | Sqm | 2.80 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 4.26 | 1.30 | 0.00 | Sqm | 5.54 |
| | Sides | 2 | 4.26 | 0.00 | 0.875 | Sqm | 7.46 |
| | Ends | 2 | 0.00 | 1.30 | 0.875 | Sqm | 2.28 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.38 | 1.00 | 0.00 | Sqm | 2.76 |
| | Sides | 2x2 | 1.38 | 0.00 | 0.50 | Sqm | 2.76 |
| | Ends | 4 | 0.00 | 1.00 | 0.50 | Sqm | 2.00 |
| | | | | | | Total | 64.61 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 64.61 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 17.97 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 3.00mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 5.60 | Cum | | |
| | Pick Work @ 50% | 2.80 | Cum | 53.50 | 149.80 |
| | Jumper Work @ 50% | 2.80 | Cum | 98.00 | 274.40 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 4.50 | Cum | 30.65 | 137.93 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 5.79 | Cum | 49.05 | 284.00 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 3.05 | Cum | 87.25 | 266.11 |
| | ii) Dry hand packed boulder stone filling in super structure. | 9.13 | Cum | 49.05 | 447.83 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 64.61 | Sqm | 9.05 | 584.72 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 64.61 | Sqm | 10.95 | 707.48 |
| 7 | Tipping of wire crates i/c equipment. | 17.97 | Cum | 21.85 | 392.64 |
| 8 | Breaking of boulder stones | 3.05 | Cum | 85.00 | 259.25 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.144 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.144 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 3.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 4.21 | 1.60 | 0.75 | Cum | 5.05 |
| | ii Apron | 1 | 2.63 | 1.75 | 0.30 | Cum | 1.38 |
| | | | | | | Total | 6.43 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.60 | 2.25 | Cum | 4.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 4.21 | 1.60 | 0.75 | Cum | 5.05 |
| | ii Apron | 1 | 2.63 | 1.75 | $\frac{0.30+0.40}{2}$ | Cum | 1.61 |
| | | | | | | Total | 6.66 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 4.79 | 1.60 | 0.875 | Cum | 6.71 |
| | 2nd Block | 1 | 4.79 | 1.30 | 0.875 | Cum | 5.45 |
| | 3rd Block | 2 | 1.52 | 1.00 | 0.50 | Cum | 1.52 |
| | | | | | | Total | 13.67 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 3.42 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 10.26 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.21 | 1.60 | 0.00 | Sqm | 6.74 |
| | Sides(i/c 15 c.m. top) | 2 | 4.21 | 0.00 | 0.75 | Sqm | 6.32 |
| | Ends | 2 | 0.00 | 1.60 | 0.75 | Sqm | 2.40 |
| | ii) Apron -- Top/Bottom | 2 | 2.63 | 1.75 | 0.00 | Sqm | 9.21 |
| | d/s Side | 1 | 2.63 | 0.00 | 0.40 | Sqm | 1.05 |
| | Ends | 2 | 0.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Sqm | 1.23 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 4.79 | 1.60 | 0.00 | Sqm | 7.66 |
| | (1st Block) Bottom | 2 | 4.79-4.21 | 1.60 | 0.00 | Sqm | 0.92 |
| | Sides | 2 | 4.79 | 0.00 | 0.875 | Sqm | 8.38 |
| | Ends | 2 | 0.00 | 1.60 | 0.875 | Sqm | 2.80 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 4.79 | 1.30 | 0.00 | Sqm | 6.23 |
| | Sides | 2 | 4.79 | 0.00 | 0.875 | Sqm | 8.38 |
| | Ends | 2 | 0.00 | 1.30 | 0.875 | Sqm | 2.28 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.52 | 1.00 | 0.00 | Sqm | 3.04 |
| | Sides | 2x2 | 1.52 | 0.00 | 0.50 | Sqm | 3.04 |
| | Ends | 4 | 0.00 | 1.00 | 0.50 | Sqm | 2.00 |
| | | | | | | Total | 71.67 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 71.67 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 20.34 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 3.50mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 6.43 | Cum | | |
| | Pick Work @ 50% | 3.21 | Cum | 53.50 | 171.74 |
| | Jumper Work @ 50% | 3.22 | Cum | 98.00 | 315.56 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 4.50 | Cum | 30.65 | 137.93 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 6.66 | Cum | 49.05 | 326.67 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 3.42 | Cum | 87.25 | 298.40 |
| | ii) Dry hand packed boulder stone filling in super structure. | 10.26 | Cum | 49.05 | 503.25 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 71.65 | Sqm | 9.05 | 648.43 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 71.65 | Sqm | 10.95 | 784.57 |
| 7 | Tipping of wire crates i/c equipment. | 20.34 | Cum | 21.85 | 444.43 |
| 8 | Breaking of boulder stones | 3.42 | Cum | 85.00 | 290.70 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.159 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.159 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 4.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 4.73 | 1.60 | 0.75 | Cum | 5.68 |
| | ii Apron | 1 | 3.00 | 1.75 | 0.30 | Cum | 1.58 |
| | | | | | | Total | 7.25 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.60 | 2.25 | Cum | 4.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 4.73 | 1.60 | 0.75 | Cum | 5.68 |
| | ii Apron | 1 | 3.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Cum | 1.84 |
| | | | | | | Total | 7.52 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 5.30 | 1.60 | 0.875 | Cum | 7.42 |
| | 2nd Block | 1 | 5.30 | 1.30 | 0.875 | Cum | 6.03 |
| | 3rd Block | 2 | 1.65 | 1.00 | 0.50 | Cum | 1.65 |
| | | | | | | Total | 15.10 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 3.78 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 11.32 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 4.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 4.73 | 1.60 | 0.00 | Sqm | 7.57 |
| | Sides(i/c 15 c.m. top) | 2 | 4.73 | 0.00 | 0.75 | Sqm | 7.10 |
| | Ends | 2 | 0.00 | 1.60 | 0.75 | Sqm | 2.40 |
| | ii) Apron -- Top/Bottom | 2 | 3.00 | 1.75 | 0.00 | Sqm | 10.50 |
| | d/s Side | 1 | 3.00 | 0.00 | 0.40 | Sqm | 1.20 |
| | Ends | 2 | 0.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Sqm | 1.23 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 5.30 | 1.60 | 0.00 | Sqm | 8.48 |
| | Bottom | 2 | 5.30-4.73 | 1.60 | 0.00 | Sqm | 0.91 |
| | Sides | 2 | 5.30 | 0.00 | 0.875 | Sqm | 9.28 |
| | Ends | 2 | 0.00 | 1.60 | 0.875 | Sqm | 2.80 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 5.30 | 1.30 | 0.00 | Sqm | 6.89 |
| | Sides | 2 | 5.30 | 0.00 | 0.875 | Sqm | 9.28 |
| | Ends | 2 | 0.00 | 1.30 | 0.875 | Sqm | 2.28 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.65 | 1.00 | 0.00 | Sqm | 3.30 |
| | Sides | 2x2 | 1.65 | 0.00 | 0.50 | Sqm | 3.30 |
| | Ends | 4 | 0.00 | 1.00 | 0.50 | Sqm | 2.00 |
| | | | | | | Total | 78.50 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 78.50 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 22.61 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 4.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 7.25 | Cum | | |
| | Pick Work @ 50% | 3.62 | Cum | 53.50 | 193.67 |
| | Jumper Work @ 50% | 3.63 | Cum | 98.00 | 355.74 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 4.50 | Cum | 30.65 | 137.93 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 7.51 | Cum | 49.05 | 368.37 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 3.78 | Cum | 87.25 | 329.81 |
| | ii) Dry hand packed boulder stone filling in super structure. | 11.32 | Cum | 49.05 | 555.25 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 78.50 | Sqm | 9.05 | 710.43 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 78.50 | Sqm | 10.95 | 859.58 |
| 7 | Tipping of wire crates i/c equipment. | 22.61 | Cum | 21.85 | 494.03 |
| 8 | Breaking of boulder stones | 3.78 | Cum | 85.00 | 321.30 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.175 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.175 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 4.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.25 | 1.60 | 0.75 | Cum | 6.30 |
| | ii Apron | 1 | 3.38 | 1.75 | 0.30 | Cum | 1.77 |
| | | | | | | Total | 8.07 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.60 | 2.25 | Cum | 4.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.25 | 1.60 | 0.75 | Cum | 6.30 |
| | ii Apron | 1 | 3.38 | 1.75 | $\frac{0.30+0.40}{2}$ | Cum | 2.07 |
| | | | | | | Total | 8.37 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 5.83 | 1.60 | 0.875 | Cum | 8.16 |
| | 2nd Block | 1 | 5.83 | 1.30 | 0.875 | Cum | 6.63 |
| | 3rd Block | 2 | 1.79 | 1.00 | 0.50 | Cum | 1.79 |
| | | | | | | Total | 16.58 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 4.15 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 12.43 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 4.50 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.25 | 1.60 | 0.00 | Sqm | 8.40 |
| | Sides(i/c 15 c.m. top) | 2 | 5.25 | 0.00 | 0.75 | Sqm | 7.88 |
| | Ends | 3 | 0.00 | 1.60 | 0.75 | Sqm | 3.60 |
| | ii) Apron -- Top/Bottom | 2 | 3.38 | 1.75 | 0.00 | Sqm | 11.83 |
| | d/s Side | 1 | 3.38 | 0.00 | 0.40 | Sqm | 1.35 |
| | Ends | 2 | 0.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Sqm | 1.23 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 5.83-5.25 | 1.60 | 0.00 | Sqm | 0.92 |
| | Bottom | 1 | 5.83 | 1.60 | 0.00 | Sqm | 9.33 |
| | Sides | 2 | 5.83 | 0.00 | 0.875 | Sqm | 10.20 |
| | Ends | 3 | 0.00 | 1.60 | 0.875 | Sqm | 4.20 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 5.83 | 1.30 | 0.00 | Sqm | 7.58 |
| | Sides | 2 | 5.83 | 0.00 | 0.875 | Sqm | 10.20 |
| | Ends | 3 | 0.00 | 1.30 | 0.875 | Sqm | 3.41 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.79 | 1.00 | 0.00 | Sqm | 3.58 |
| | Sides | 2x2 | 1.79 | 0.00 | 0.50 | Sqm | 3.58 |
| | Ends | 4 | 0.00 | 1.00 | 0.50 | Sqm | 2.00 |
| | | | | | | Total | 89.29 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 89.29 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 24.95 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 4.50 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|--------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 8.07 | Cum | | |
| | Pick Work @ 50% | 4.03 | Cum | 53.50 | 215.61 |
| | Jumper Work @ 50% | 4.04 | Cum | 98.00 | 395.92 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 4.50 | Cum | 30.65 | 137.93 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 8.37 | Cum | 49.05 | 410.55 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 4.15 | Cum | 87.25 | 362.09 |
| | ii) Dry hand packed boulder stone filling in super structure. | 12.43 | Cum | 49.05 | 609.69 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 89.28 | Sqm | 9.05 | 807.98 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 89.28 | Sqm | 10.95 | 977.62 |
| 7 | Tipping of wire crates i/c equipment. | 24.95 | Cum | 21.85 | 545.16 |
| 8 | Breaking of boulder stones | 4.15 | Cum | 85.00 | 352.75 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.199 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.199 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 1 | Excavation in foundation, trenches etc., in earth work, lift upto 1.50 metres and then disposing of all surplus excavated earth as directed with in a lead of 20 metres: | | | | | | |
| | i. Foundation | 1 | 5.77 | 1.60 | 0.75 | Cum | 6.92 |
| | ii Apron | 1 | 3.75 | 1.75 | 0.30 | Cum | 1.97 |
| | | | | | | Total | 8.89 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metre in anchorage. | 2 | $\frac{0.50+0.75}{2}$ | 1.60 | 2.25 | Cum | 4.50 |
| 3 | Dry hand packed boulder stone filling in: | | | | | | |
| | i. Foundation | 1 | 5.77 | 1.60 | 0.75 | Cum | 6.92 |
| | ii Apron | 1 | 3.75 | 1.75 | $\frac{0.30+0.40}{2}$ | Cum | 2.30 |
| | | | | | | Total | 9.22 |
| 4 | Construction of super structure of Check dam. | | | | | | |
| | Ist Block | 1 | 6.34 | 1.60 | 0.875 | Cum | 8.88 |
| | 2nd Block | 1 | 6.34 | 1.30 | 0.875 | Cum | 7.21 |
| | 3rd Block | 2 | 1.92 | 1.00 | 0.50 | Cum | 1.92 |
| | | | | | | Total | 18.01 |
| | i) Dry Random Rubble Stone masnory masnory @ 25% | 0 | 0 | 0 | 0 | Cum | 4.50 |
| | ii) Dry hand packed boulder stone filling @ 75% | 0 | 0 | 0 | 0 | Cum | 13.51 |

DETAIL OF MEASUREMENTS

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | NOS. | MEASUREMENT | | | UNIT | QTY. |
|-------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------|-----------------------|--------------|--------------|
| | | | Length | Width | Depth/Ht. | | |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No. 6/8 in 15cmx15cm mesh. | | | | | | |
| | i) Foundation-- Bottom | 1 | 5.77 | 1.60 | 0.00 | Sqm | 9.23 |
| | Sides(i/c 15 c.m. top) | 2 | 5.77 | 0.00 | 0.75 | Sqm | 8.66 |
| | Ends | 3 | 0.00 | 1.60 | 0.75 | Sqm | 3.60 |
| | ii) Apron -- Top/Bottom | 2 | 3.75 | 1.75 | 0.00 | Sqm | 13.13 |
| | d/s Side | 1 | 3.75 | 0.00 | 0.40 | Sqm | 1.50 |
| | Ends | 2 | 0.00 | 1.75 | $\frac{0.30+0.40}{2}$ | Sqm | 1.23 |
| | iii) Super Structure | | | | | | |
| | (1st Block) Top | 1 | 6.34 | 1.60 | 0.00 | Sqm | 10.14 |
| | Bottom | 1 | 6.34-5.77 | 1.60 | 0.00 | Sqm | 0.91 |
| | Sides | 2 | 6.34 | 0.00 | 0.875 | Sqm | 11.10 |
| | Ends | 3 | 0.00 | 1.60 | 0.875 | Sqm | 4.20 |
| | Super Structure- | | | | | | |
| | (2nd Block) Top/Bottom | 1 | 6.34 | 1.30 | 0.00 | Sqm | 8.24 |
| | Sides | 2 | 6.34 | 0.00 | 0.875 | Sqm | 11.10 |
| | Ends | 3 | 0.00 | 1.30 | 0.875 | Sqm | 3.41 |
| | Super Structure- | | | | | | |
| | (3rd Block) Top/Bottom | 2 | 1.92 | 1.00 | 0.00 | Sqm | 3.84 |
| | Sides | 2x2 | 1.92 | 0.00 | 0.50 | Sqm | 3.84 |
| | Ends | 4 | 0.00 | 1.00 | 0.50 | Sqm | 2.00 |
| | | | | | | Total | 96.12 |
| 6 | Spreading of wire crate over pitching , stone masonry, boulder filling etc. | Qty. Same as item No. 5 | | | | Sqm | 96.12 |
| 7 | Tipping of wire crates i/c equipment. | Qty. same as Sum of items 3-4 | | | | Cum | 27.23 |

ABSTRACT OF LABOUR COST

Wire Crate Check Dam

Ht. 1.75 mtrs. Length 5.00 mtrs.

| S.NO. | PARTICULARS | QTY. | UNIT | RATE | AMOUNT |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|---------|
| 1 | Excavation in foundation , trenches etc., in earth work , lift upto 1.50 metres and disposal surplus excavated earth upto a lead of 20 metres. | | | | |
| | Total Qty. | 8.89 | Cum | | |
| | Pick Work @ 50% | 4.44 | Cum | 53.50 | 237.54 |
| | Jumper Work @ 50% | 4.45 | Cum | 98.00 | 436.10 |
| 2 | Cutting in earth work and disposal of excavated earth upto a lead of 20 metres in anchorage. | 4.50 | Cum | 30.65 | 137.93 |
| 3 | Dry hand packed boulder stone filling in Foundation & Apron. | 9.22 | Cum | 49.05 | 452.24 |
| 4 | i) Dry random rubble stone masonry in super structure i/c rough dressing. | 4.50 | Cum | 87.25 | 392.63 |
| | ii) Dry hand packed boulder stone filling in super structure. | 13.51 | Cum | 49.05 | 662.67 |
| 5 | Weaving of wire netting for wire crate with G.I. wire 4mm/5mm or SWG No.6/8 in 15cmx15cm mesh. | 96.13 | Sqm | 9.05 | 869.98 |
| 6 | Spreading of wire crate over pitching stone masonry, boulder filling etc. | 96.13 | Sqm | 10.95 | 1052.62 |
| 7 | Tipping of wire crates i/c equipment. | 27.23 | Cum | 21.85 | 594.98 |
| 8 | Breaking of boulder stones | 4.50 | Cum | 85.00 | 382.50 |
| 9 | Carriage of G.I. wire from store to worksite O/D _____ by M/L or Mules. | 0.214 | Tonne/Km. | | |
| 10 | Carriage of boulder stones from nala/ road head along nala to workshite over an average distance _____ km. by M/L or Mules. | | Cum/Km. | | |
| ABSTRACT OF MATERIAL COST | | | | | |
| 1 | Cost & carriage of G.I. wire upto store. | 0.214 | Tonne | | |
| 2 | Cost & carriage of boulder stones upto road head. | | Cum | | |
| | | | | Total | |