

4. 2. 2. 2. 2.

✓E00H-4H-02-RN-8-M5 HANSEN 1456-4-1957  
15-11-86025-(932) 15

[illegible]

સુરેશભાઈ રાજુભાઈ ભાઈના પુત્રપટ્ટણી, શ્રી' લોકના નામે,

१. श्री. ए. टी. शर्मा,  
 २. श्री. ए. टी. शर्मा,  
 ३. श्री. ए. टी. शर्मा, विना. ज.

१५५५

[illegible][illegible][illegible]

सिद्धि: ५१. ५१. ५१. ५१.

[illegible]

Alms - 68

245

**Signature of the Executive Engineer**  
અધ્યક્ષાલક ઈજનેરની સહી :

ગુજરાત સરકાર  
મંત્રીશ્રીને મહાન વિભાગ  
પરિપત્ર ક્રમાંક: ટીએનસી-૧૦-૨૦૧૧-૧૧-સી  
સચિવાલય, ગાંધીનગર  
તા.૧૯/૧૦/૨૦૧૫

વિષય:- મૂળ ઇજારદારશ્રી કામ કરવા માટે અસફળ રહે તો તેમની સામે તાત્કાલિક પગલો લેવા  
અર્થવાહી કરવા બાબત



- (૧) મા.મ. વિભાગનો પરિપત્ર ક્રમાંક: ટીએનસી-૧૬-૬૯-આઇબી-૫૬૭-૧૪૨-સી  
તા.૨૭/૦૬/૧૯૮૦
- (૨) મા.મ. વિભાગનો પરિપત્ર ક્રમાંક: ટીએનસી-૧૬-૬૯-આઇબી-૫૬૭-૧૪૨-સી  
તા.૧૬/૧૨/૧૯૮૦
- (૩) મા.મ. વિભાગનો પરિપત્ર ક્રમાંક: ટીએનસી-૧૫૮૫-આઇબી-૨૦૧-૯-સી  
તા.૧૯/૦૮/૧૯૮૫ (અંગ્રેજીમાં)
- (૪) મા.મ. વિભાગનો પરિપત્ર ક્રમાંક: ટીએનસી-૧૫૮૫-આઇબી-૨૦૧-૯-સી  
તા.૧૯/૦૮/૧૯૮૫ (ગુજરાતીમાં)
- (૫) મા.મ. વિભાગનો પરિપત્ર ક્રમાંક: ધીડીડબલ્યુ-૧૦૮૨-૪૬૩-૨-સ તા.૧૨/૦૩/૧૯૮૦

#### પરિપત્ર

મા.મ. વિભાગ દ્વારા અગાઉ ટેન્ડરની શરતો પ્રમાણે નક્કી કરેલ સમયમાં કામ પૂર્ણ કરવા માટે જ્યારે  
મૂળ ઇજારદાર નિષ્ફળ ગયો ત્યારે તો કામ અધૂરું છોડીને ચાલ્યા જાય ત્યારે તે અધૂરું કામ બીજા ઇજારદારશ્રી  
દ્વારા મૂળ ઇજારદારના ખર્ચે અને જોખમે પૂરું કરાવવા અને મૂળ ઇજારદાર પાસેથી વધારાના ખર્ચ માટેની  
રકમની વસુલાત કરવા અંગેની કાર્યવાહી કરવામાં આવતી હતી. પરંતુ આ પ્રકારની વસુલાત મૂળ ઇજારદાર  
પાસેથી કરવા બાબતે વાર કોર્ટમાં પણ જવું પડતું હતું અને આવી રકમ વસુલાત કરવામાં બહોળો વિલંબ થતો  
હતો. પરંતુ હવે ટેન્ડરમાં મૂળ ઇજારદારશ્રીએ અધૂરા ભેડેલ કામો બીજા ઇજારદારશ્રી દ્વારા મૂળ ઇજારદારના  
ખર્ચે અને જોખમે પૂરું કરાવવા અને મૂળ ઇજારદાર પાસેથી વધારાના ખર્ચ માટેની રકમની વસુલાત કરવા  
અંગેની જોગવાઈ રદ કરવામાં આવેલ છે. આથી હવે ઉપરોક્ત પરિપત્રોમાંની સુચનાઓની અમલવારી હવે  
કરવાની રહેતી નથી અને આ પરિપત્રોની સુચનાઓને રદ ગણવાની રહેશે.

*(આર.કે. ચૌહાણ)*

આસ કરજ પરના અધિકારીશ્રી (સી.ટો.)  
મંત્રી અને મહાન વિભાગ  
ગાંધીનગર

પ્રતિ,

સર્વે અધિકાર ઇજનેરશ્રીઓ, મા.મ. વર્તુળ/પંચાયત મા.મ. વર્તુળ/ને.સ. વર્તુળ/એકસપેસ વે વર્તુળ/ પા.દો.  
વર્તુળ સહિત  
સર્વે કાર્યપાલક ઇજનેરશ્રીઓ, ઉપરોક્ત વર્તુળો કેન્દ્રના સર્વે વિભાગો  
સર્વે તાંત્રિક અધિકારીશ્રીઓ, જા.કા.ઉ.શ્રીઓ સહિત, મા.મ. વિભાગ સચિવાલય, ગાંધીનગર  
સર્વે સામ્રાજ્ય, મા.મ. વિભાગ સચિવાલય, ગાંધીનગર

Signature of the Contractor :  
કોન્ટ્રાક્ટરની સહી :

246

Signature of the Executive Engineer  
કાર્યપાલક ઇજનેરની સહી :

રસ્તા, પુલો અને મકાનોની ગુણવત્તા ચકાસણી માટેના  
નિયતપત્રકોનો ઉપયોગ ઈન્સ્પેક્શન નોંધ માટે કરવા બાબત  
ગુજરાત સરકાર  
માર્ગ અને મકાન વિભાગ  
બ્લોક નં. ૧૪/૨, સરદાર ભવન,  
સચિવાલય, ગાંધીનગર  
ક્રમાંક : PRC-10-2017-31-C  
તા. ૨૬/૦૫/૨૦૧૭

### પરિપત્ર

માર્ગ અને મકાન વિભાગના રસ્તા, પુલ અને મકાનના કામો ઈજારદારશ્રી મારફત કરાવવામાં આવે છે. આ કામોની ગુણવત્તા ચકાસણી કરવાનું કામ ગુણવત્તા નિયમન (મા.મ.) વિભાગ દ્વારા કરવામાં આવે છે. કામોની ચકાસણી માટે ગુણવત્તા નિયમન (મા.મ.) વિભાગ હેઠળ ગુજરાત રાજ્યમાં કુલ-૬ (છ) કાર્યપાલક ઈજનેરશ્રીઓની નિમણૂંક કરવામાં આવેલ છે. કામોની ગુણવત્તા ચકાસણી કરી તેનો સ્થળ સ્થિતિ મુજબનો ઈન્સ્પેક્શન રીપોર્ટ કાર્યપાલક ઈજનેરશ્રી દ્વારા તૈયાર કરી જે તે સંબંધિત કાર્યપાલક ઈજનેરશ્રીને પુર્તતા અર્થે સાદર કરવામાં આવે છે અને એની જાણ જે તે વિભાગના કાર્યપાલક ઈજનેરશ્રીઓ દ્વારા રજૂ કરવામાં આવતા ઈન્સ્પેક્શન રીપોર્ટની વિગતોમાં એકસરખા ફોર્મોટ વિભાગ દ્વારા નિયત કરેલ ન હોવાથી એકસૂત્રતા રહેતી નથી.

મુખ્ય ઈજનેરશ્રીઓની કમિટીમાં નકકી થયા મુજબ ઈન્સ્પેક્શન રીપોર્ટમાં એકસૂત્રતા રહે અને પી.એમ.જી.એસ.વાય.માં "ગ્રેડ સિસ્ટમ" વાળો રીપોર્ટ સાદર કરવામાં આવે છે એ પદ્ધતિએ ઈન્સ્પેક્શન રીપોર્ટનું ફોર્મેટ બનાવવા જણાવવામાં આવેલ હતું. માર્ગ અને મકાન વિભાગના રસ્તા, પુલ અને મકાન માટેના ગુણવત્તા ચકાસણી કરવા માટેના ઈન્સ્પેક્શન રીપોર્ટના ફોર્મેટ ગ્રેડ સિસ્ટમવાળા આ સાથે તૈયાર કરવામાં આવેલ છે. હવે પછી ગુણવત્તા વિભાગના મુખ્ય ઈજનેરશ્રી, અધિક્ષક ઈજનેરશ્રી, કાર્યપાલક ઈજનેરશ્રી, સંબંધિત અધિક્ષક ઈજનેરશ્રી તથા જે કોઈ પણ અધિકારીશ્રી ગુણવત્તા ચકાસણીની કામગીરી કરે તેમણે આ ફોર્મેટનો ઈન્સ્પેક્શન રીપોર્ટ માટે ઉપયોગ કરવાનો રહેશે.

કામની ચકાસણી કર્યા બાદ કામનો એકંદરે ગ્રેડ "S (Satisfactory), SRI (Satisfactory but require improvement) કે U (Unsatisfactory)" આપવાનો રહેશે.

- (૧) જો ગુણવત્તા ચકાસણીમાં કામનો એકંદરે ગ્રેડ "S" મળશે તો એ કામ Satisfactory કક્ષાનું હોય કોઈ પુર્તતા કરવાની રહેતી નથી.
- (૨) જો ગુણવત્તા ચકાસણીમાં કામનો એકંદરે ગ્રેડ "SRI" (Satisfactory but require improvement) મળશે તો જે તે આઈટમમાં "SRI/U" ગ્રેડ મળેલ છે એ આઈટમની સુધારણા ટેન્ડરમાં જણાવેલ સ્પેશીફિકેશન મુજબ કરી એનો "ATR" (Action Taken Report) સંબંધિત કાર્યપાલક ઈજનેરશ્રીએ તૈયાર કરી જે તે ગુણવત્તા નિયમન વિભાગના કાર્યપાલક ઈજનેરશ્રીની ફરીથી સ્થળ મુલાકાત કરાવશે અને ગુણવત્તા નિયમન વિભાગના કાર્યપાલક ઈજનેરશ્રી પૂર્તતા સાથે સહમત હોય તો અહેવાલ અધિક્ષક ઈજનેરશ્રી, ગુણવત્તા નિયમન વિભાગને સાદર કરશે. અધિક્ષક ઈજનેરશ્રી, ગુણવત્તા નિયમન વિભાગ પુર્તતા અહેવાલ યોગ્ય હશે તો રીગ્રેડ એટલે "SRI/U" માંથી "S" માટે ભલામણ કરશે. ત્યારબાદ સદરહુ પુર્તતા અહેવાલ સંબંધિત અધિક્ષક ઈજનેરશ્રી મારફત સંબંધિત મુખ્ય ઈજનેરશ્રીને સાદર કરવાનો રહેશે. સંબંધિત મુખ્ય ઈજનેરશ્રીએ સદરહુ "ATR" મુખ્ય ઈજનેરશ્રી ગુણવત્તા નિયમન વિભાગને પુર્તતા ગ્રાહ્ય રાખી "S" ગ્રેડીંગ આપવા માટે ભલામણ સહ સાદર કરવાનો રહેશે. ગુણવત્તા નિયમન વિભાગમાંથી પુર્તતા ગ્રાહ્ય રાખી "S" ગ્રેડીંગનું પ્રમાણપત્ર મળ્યા બાદ જ આ આઈટમનું બાકીનું ચુકવણું કરવાનું રહેશે.
- (૩) ગુણવત્તા ચકાસણીમાં કામનો એકંદરે ગ્રેડ "U" (unsatisfactory) મળશે તો જે તે આઈટમમાં "SRI/U" મળેલ છે એ આઈટમમાં સુધારણા અથવા Reconstruction (આઈટમ ફરીથી કરવી) ટેન્ડરમાં જણાવેલ સ્પેશીફિકેશન મુજબ ફરી એનો "ATR" સંબંધિત કાર્યપાલક ઈજનેરશ્રીએ તૈયાર કરી જે તે ગુણવત્તા નિયમન વિભાગના કાર્યપાલક ઈજનેરશ્રીની ફરીથી સ્થળ મુલાકાત કરાવશે અને ગુણવત્તા નિયમન વિભાગના કાર્યપાલક ઈજનેરશ્રી પુર્તતા સાથે સહમત હોય તો અહેવાલ અધિક્ષક ઈજનેરશ્રી, ગુણવત્તા નિયમન વિભાગને સાદર કરશે. અધિક્ષક ઈજનેરશ્રી, ગુણવત્તા નિયમન વિભાગ પુર્તતા અહેવાલ યોગ્ય હશે તો રીગ્રેડ એટલે "SRI/U" માંથી "S" માટે ભલામણ કરશે. ત્યારબાદ સદરહુ પુર્તતા અહેવાલ સંબંધિત અધિક્ષક ઈજનેરશ્રી મારફત સંબંધિત મુખ્ય ઈજનેરશ્રીને સાદર કરવાનો રહેશે. સંબંધિત મુખ્ય ઈજનેરશ્રીએ સદરહુ "ATR" મુખ્ય ઈજનેરશ્રી ગુણવત્તા નિયમન વિભાગને પુર્તતા ગ્રાહ્ય રાખી "S" ગ્રેડીંગ આપવા માટે ભલામણસહ સાદર કરવાનો રહેશે. ગુણવત્તા નિયમન વિભાગમાંથી પુર્તતા ગ્રાહ્ય રાખી "S" ગ્રેડીંગનું પ્રમાણપત્ર મળ્યા બાદ જ સમગ્ર કામનું બાકીનું ચુકવણું કરવાનું રહેશે. ઉપરોક્ત સુચનાનો અમલ ચુસ્તપણે તાત્કાલિક અસરથી કરવાનો રહેશે.

બિડાણ :-

- (૧) રસ્તા, પુલ અને મકાનના કામોની  
ગુણવત્તા ચકાસણી માટેના નિયત પત્રકો
- (૨) એ.ટી.આર.નું નિયત પત્રક

(એન.જી.પરમાર)  
ખાસ ફરજ પરના અધિકારી  
(વિ.ધો.)  
માર્ગ અને મકાન વિભાગ  
ગાંધીનગર.

**ANNEXURE - 'A'**  
**TECHNICAL REQUIREMENT OF DRUM MIX PLANT**

**COMPOSITION OF PLANT :-**

The Drum mix plant shall confirm generally to I.S. Specifications No. IS : 3066 / 1965 as amended from time to time and shall be equipped with the following arrangements.

**1. COLD AGGREGATE FEEDER :**

The cold aggregate feeder shall have minimum three independent bins or compartment, each provided with accurate mechanical pre-determined rate to cold convator or to some intermediate conveyor or directly into the dryer. The feeder shall provide for the adjustment of total and proportional feed and shall be capable of being locked in any setting.

**2. DRYER**

The dryer shall be capable of continuously agitating the aggregates while heating to the desired temperature. At the discharge end of the dryer or any other suitable location means shall be provided for ascertaining the temperature of the heated aggregate.

**3. SCREENING UNIT AND GRADATION CONTROL**

The dried aggregate shall be screened into not less than three sizes, the plant shall include means for accurately proportioning, each size of aggregate either by weight volumetric measurement. The gradation control is by volume, the unit shall include feeder mounted under the compartment bins, each bin shall have an accurately controlled, individual gate to form an office for proportioning the material drawn from wach respective bin compartment. The office shall have positive mechanical adjustment and provided with a lock. Indicators shall be provided on each gate to show the opening in centimeters.

Signature of the Contractor :  
કોન્ટ્રાક્ટરની સહી :

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Signature of the Executive Engineer  
કાર્યવાહક ઈજનેરની સહી :

**4. MIXER UNIT**

The plant shall include a mixer of an approved twinshaft pugmill type capable of producing a uniform mix. If not enclosed, the mixer box shall be equipped with a dust hood to prevent loss of fines.

**5. MINERAL FILLER SUPPLY UNIT**

There shall be an independent arrangement to feed mineral filler directly into the pugmill. The hopper to bin for mineral filler shall provide for adjustment proportion the feed with the aggregate and binders and shall be capable of being located in any setting.

**6. BITUMEN HEATING :**

A heating system for bitumen always with effective and positive control of temperature shall be provided to maintain proper temperature and for allowing continuous during the entire operating period. Suitable arrangement shall be provided for recording the temperature at the tanks and in the circulating system

**7. SYNCHRONIZATION**

For synchronization of aggregate bitumen and filler feeds satisfactory means shall be provided the effort positive inter-locking control between the flow of aggregate from the bins or compartment flow bitumen from the tank and flow of mineral filler.

*Signature of Contractor*

*Executive Engineer*

Signature of the Contractor :  
ଶ୍ରୀ-ହରିହର-ନାଥ

257

Signature of the Executive Engineer  
ଶ୍ରୀ-ପ୍ରଦୀପ-ନାଥ

ANNEXURE - 'B'

ADDITIONAL REQUIREMENT FOR THE DRUM MIX PLANT AND PAVER  
FINISHER AS PER M.O.S.T. SPECIFICATION.

(11th REVISION - FEBRUARY - 1988)

- (a) Cold aggregate feed system for providing blended aggregate in the correct proportion (called cold binfeed arrangement)
- (b) Rotating cylindrical dryer drum fitted with suitable burner capable of heating the aggregate to the required temperature without any visible unburnt fuel or carbon residue on the aggregate and to reduce the moisture content of the aggregate to the specified minimum level.
- (c) The dryer units shall be fitted with approved type of thermometric instruments at appropriate places so as to indicate or automatically record / register the temperature of heated aggregate before adding / mixing the binder

(d) GRADATION CONTROL

Except in case of drum mix plant, other two types of plants mentioned above shall have :

- i) A screen unit for accurate sizing of hot aggregate and feeding the same to mixing unit by weight or volume control as per the specified job mix formula
- ii) Paddle mixer unit shall be capable of producing a homogenous mix with uniform coating of all particles of the mineral aggregate with binder.
- (e) In case of drum mix plant, the cold feed system shall have variable speed belt conveyors / or other suitable devices for regulating the accurate into an even feed flow automatically from a central operating control cabin

Signature of the Contractor :  
ଅନୁମୋଦିତ ଲେଖନୀ :

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Signature of the Executive Engineer  
ଅନୁମୋଦିତ ଲେଖନୀ :



**BITUMEN CONTROL UNIT**

Capable of measuring / metering and spraying required quantity of bitumen at specified temperature with automatic synchronisation of bitumen and aggregate feed.

**FILLER SYSTEM**

Fines feeder system suitable to receive bagged or bulk supply of filler material and its incorporation to the mix in the correct quantity shall be a necessary auxiliary.

**DUST CONTROL :**

A suitable built in dust control equipment for the dryer to contain the exhaust of fine dust into atmosphere for environmental control, wherever so specified by the Engineer.

Suitable auxiliary bitumen boiler of adequate capacity with self heating arrangement and temperature control device. The boiler shall be fitted with temperature indicating instruments.

**REQUIREMENT FOR ESSENTIAL FEATURES FOR PAVER FINISHER**

- (a) Loading hoppers and suitable distributing mechanism.
- (b) All drives having hydrostatic drive/ control.
- (c) The machine shall have a hydraulically extendable screed for appropriate width requirement.
- (d) The screed shall have temping and vibrating arrangement for initial compaction to the layer as it is spread without rutting or otherwise marring the surface. It shall have adjustable amplitude and infinitely variable frequency.
- (e) The paver shall be equipped with necessary control mechanism so as to ensure that the finished surface is free from surface blemishes.
- (f) The screed shall have internal heating arrangement 20mm thick M.S.S. can be laid by means of self propelled mechanical paver with suitable screeds capable of spreading temping and finishing the mix true to the specified lines grades and cross section.

*Signature of Contractor*

*Executive Engineer*

Signature of the Contractor :  
કો-ટ્રાસ્ટરની સહી :

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Signature of the Executive Engineer  
કાર્યવાહક ઈજનેરની સહી :

**ANNEXURE – "C"**

**SPECIAL CONDITION FOR BITUMINOUS SURFACE WORK WITH USE OF  
DRUM MIX PLANT AND PAVER FINISHER.**

- [1] The Drum mix plant and accessories to be used for the work shall be conformity with the specifications prescribed vide Govt. of India Ministry of Transport Circular No. RW/RMP/1613784 Dtd. 01-01-87. The plant shall be equipped with all units and accessories as per latest I.S. 3066/1965 as amended from time to time. The contractors will have to modify their plants suitable with in a period of six months from the date of issue of latest I.S. specification or codes (as per applicable on the last date of issue of the tenders)
- [2] The work of laying agreement asphalt hot mixed with bitumen shall start on site of work only after 8.00 hours. in the morning and continue upto 17.00 hours in winter season and upto 18.30 hours in summer. No work shall be done except during the period mentioned above and also on Sundays and national holidays viz. 26<sup>th</sup> January, 15<sup>th</sup> August and 2<sup>nd</sup> October.
- [3] Quantity of bituminous aggregate mix to be laid shall be restricted to 250 tonne per day for 30/40 capacity plant and may be or less depending upon the rated capacity of the plant.
- [4] The work of laying asphalt mix shall start latest within 60 days from the date of issue of work order and will be completed as per time limit. Reasons for delay in starting of work after 60 days shall result into sufficient cause for levying compensation for disproportionate progress. However, the period for 15<sup>th</sup> June to 15<sup>th</sup> October being monsoon shall not be counted for the purpose of disproportionate progress and consequent cause for levy of compensation. The contractors shall commence the work of laying pavement on or before the last date of period mentioned above failing which he shall pay compensation not less than Rs. 500/- per day for every day that he shall delay the commencement of the work as above in accordance with Clause – 2 of the contract.
- [5] Further if after commencement of work within 60 days of issue of work-order and after doing some work, the contractor leaves the work in complete except for the following reasons compensation at the Rate of Rs. 500.00 per day will be levied from the date of stoppage of asphalt work to date of its resumption.
  - [1] For the days the stoppage is solely due to break down of machinery and
  - [2] Paver plant is not shifted from the site and no work is done on other site through the paver plant during the period of break down of machinery.

Signature of the Contractor :  
કોન્ટ્રાક્ટરની સહી :

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Signature of the Executive Engineer  
કાર્યપાલક ઈજનેરની સહી :

- [6] However if contractor completes the work within stipulated time as per tender agreement. Government may consider to relax this provision and refund the amount recovered after completion of the work.

The contractor shall invariably get the job mix formula for the mix approved by the Engineer-in-Charge before starting the work.

*Signature of Contractor*

*Executive Engineer*

Signature of the Contractor :  
ଶ୍ରୀ-ହରିହର-ନାଥ :



Signature of the Executive Engineer  
ଆର୍.ଏ.ଏ.ଏ. ଓ.ଏ.ଏ.ଏ. :

## ANNEXURE – D

(AS PER GOVT. IN R & B DEPARTMENT CIRCULAR NO.  
SNR/1099/IB/91(9)/5 DT. 26-07-1999.)

The contractor shall have to provide a permanent structure laboratory at plant site of at least 25.00 Sqm. Area with provision of water and light facilities.

The contractor shall have to provide following asphalt testing instruments in the laboratory.

[1]	Penetration Test	I.S. 1203
[2]	Softening point Test	I.S. 1205
[3]	Ductility Test	I.S. 1208
[4]	Viscosity Test	I.S. 1206
[5]	Specific gravity Test	I.S. 1202

The above instrument shall be as per I.S. and they shall be calibrated regularly and in working condition.

**Note :-**

1. Annexure- A-B-C & D attached shall be applicable for drum mix plant paver & its condition.
2. The asphalt shall be brought by the agency at his own cost and shall have to transport the bulk asphalt at plant site Q work site at his own cost and shall have to make satisfactory arrangement at his own cost as directed by the engineer in charge.
3. The bitumen shall be of 80/100 grade satisfying the requirement of I.S. 73.
4. The material (Metal murrum) supplied on site by the agency shall be cross checked by another Deputy Engineer as per rules before spreading the collected materials.

*Signature of Contractor*

*Executive Engineer*

Signature of the Contractor :  
એન્જીનેરની સહી :

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Signature of the Executive Engineer  
અધ્યાપક ઈજનેરની સહી :

(ગુજરાત સરકારશ્રીના માર્ગ અને મકાન વિભાગના પરિપત્ર ક્રમાંક : આરજીએન : ૬૦૨૦૦૬ (૩૫) સ.  
તા. ૩૧-૦૫-૨૦૦૭)

**:: કરારની ખાસ શરતો ::**

ડામરની કામની ચકાસણી માટે કોરકટીંગ મશીન વસાવવા તથા રૂા. ૧૦૦.૦૦ લાખથી ઉપરના કામ માટે  
ઈજારદારશ્રી દ્વારા ફુલટાઈમ ક્વોલીફાઈડ ઈજનેર રાખવા અંગે નીચેની શરતો દાખલ કરેલ છે.

શરતો :-

- (૧) "૫૦ મીમી થી વધુ ડામર કામની સંયુક્ત જાડાઈ (બી.એસ.જી., બી.બી.એમ સિવાય) હોય તેવા રસ્તાના  
કામમાં દર ૨૫૦ મીટર દીઠ એક ક્રોસ સેક્શન પર ડામર કામની પહોળાઈ અનુસાર બે થી ચાર કોર  
સેમ્પલ ઈજારદાર પોતાના કોર કટીંગ મશીન વડે સંબંધિત નાયબ કાર્યપાલક ઈજનેરની હાજરીમાં મેળવી  
આપવાના રહેશે અને આ સેમ્પલ સીલ કરી માન્ય લેબોરેટરી મારફત થીકનેશ, ડેન્સિટી તથા બીટયુમીનસ  
કન્ટેન્ટના પરિણામ કરાવી પરિણામો મેળવવાના રહેશે. સંતોષકારક પરિણામો આવ્યા સુધી ડામર કામની  
સુકવવાપાત્ર રકમના ૫% રકમ વીથહેલ્ડ રાખવામાં આવશે. જે રકમ સંતોષકારક પરિણામો મળ્યા બાદ જ  
છુટી કરાશે. પરંતુ સંતોષકારક પરિણામ નહિ મેળવવાના કિસ્સાઓમાં કરારની અન્ય શરતો અનુસાર  
કાર્યવાહી થઈ શકશે"
- (૨) " કરાર હેઠળના કામ પર ઈજારદારે ફુલટાઈમ ક્વોલીફાઈડ એન્જનીયર નિયુક્ત કરવાનો રહેશે. જે અંગે  
કામનો વર્કઓર્ડર મળ્યે દિન-૧૫ માં કાર્યપાલક ઈજનેરશ્રીની જાણ હેઠળ, નાયબ કાર્યપાલક ઈજનેરશ્રીને  
નિયુક્ત ઈજનેરના નામ, ક્વોલીફિકેશન, માર્કશીટ, સર્ટીફિકેટ, કલર ફોટોગ્રાફ, નિયુક્તિનો હુકમ વગેરે  
વિગત રજુ કરવાની રહેશે તથા કામ પર હાજર થયા અંગેનો રીપોર્ટ આપવાનો રહેશે. જે અનુસાર કરાર  
હેઠળના કામ પર ક્વોલીફાઈડ ઈજનેરની ઉપરોક્ત શરત મુજબ નિયુક્તિ થાય તથા સ્થળ પર ખરેખર  
કામગીરી ન સંભાળે ત્યાં સુધીના સમયગાળા તેમજ કામ ચાલુ રહે તે સમય દરમિયાન નિયુક્તિ કરેલ ઈજનેર  
કામગીરી સંભાળશે નહિ તો તે સમયગાળા માટે રૂા. ૧૫૦૦૦/- પ્રતિ માસ લેખે બીલમાંથી કપાત કરવામાં  
આવશે. જે નીચે રીફંડેબલ રહેશે".

Signature of the Contractor :  
કોન્ટ્રાક્ટરની સહી :

૨૫૭

Signature of the Executive Engineer  
કાર્યપાલક ઈજનેરની સહી :

**SPECIAL CONDITIONS OF THE CONTRACT**

- [1] 2% of the amount eligible for the payment of bituminous item shall be with held till the miscellaneous items like earthwork in embankment / cutting for side shoulders, side gutters, kilometer / indicator / guard stones, sign boards etc. are completed in all respect by the contractor. After completion of the miscellaneous items, the above said 2% with held amount shall be released.
- [2] Setting up of adequate laboratory & deployment of quality engineer.
- [3] The contractor shall have to set up the laboratory with adequate equipment. Till the setting up of adequate laboratory is completed & reported of this to the engineer(subject to due verification by engineers representative) by contractor in writing, Rs. 2,00,000/- shall be withheld. The qualified quality engineer shall be deployed exclusive for this contract by the contractors. If quality engineer is not deployed by contractor within one month after the date of work order, the amount equivalent to Rs. 15,000.00 per month shall be recovered till the actual deployment of quality engineer. The amount so recovered towards the deployment of quality engineer hall not be refunded.

Asphalt work will have to be cross checked as per G.R. No. RGN/60/2006/35/C Dtd. 31-05-07 before final bill is paid.

Signature of the Contractor :  
કોન્ટ્રાક્ટરની સહી :

258

Signature of the Executive Engineer  
કાર્યવાહક ઈજનેરની સહી :

### Special Condition for Free maintenance guarantee period For New Road Construction

The contractor shall have to give **Five years free maintenance guarantee** from the certified date of completion. During this period contractor shall have to repair the damaged portion of the BT surface of road, and all other executed items at his risk and cost as per direction of Engineers – in – charge. If BT surface during maintenance period of 5 years is worn-out or damaged then, agency shall have to take remedial action as per table below and as directed by Engineer – in – charge. The cost of annual maintenance for five year shall required to be considered while quoting the tender and has to be born by the contractor. The periodicity of routine maintenance activity shall be as follows.

**(a) Maintenance of Bituminous surface road and/or Cement concrete road and/or gravel road and/or WBM road including filling pot holes and patch repairs etc as per clause 1904, 1905, 1906 and 1907 of the Specifications for Rural Roads (First Revision) IRC New Delhi 2014 respectively.**

Sr No	Distress and service Level	Remedy	Period to attend for the Contractor
1	Potholes	As per IRC:SP:20-2002 and specifications for rural roads of IRC:2014	7 Days
2	Surface damages/worn out surface in more than 50 meters of lane length in the road stretch	Renewal with wearing coat as originally laid by contractor - as per tender item and specification.	21 Days
3	Patch work area exceeds 30% in per KM length		

**(b) Other maintenance works to be carried out:**


Sr No	Name of Item/Activity	Frequency of operation in one year
1	Restoration of rain cuts and dressing of berms as per clause 1902 of the Specification for Rural Roads (First Revision) IRC New Delhi 2014.	As and when required
2	Maintenance of earthen shoulders as per clause 1903 of the Specification Rural Roads (First Revision) IRC New Delhi 2014.	As and when required.
3	Maintenance of drains as per clause 1908 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Twice in a year before/after monsoon
4	Maintenance of culverts and causeways including vent clearance as per clause 1909 and 1910 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Twice in a year before/after monsoon
5	Maintenance of road signs as per clause 1911 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Maintenance as and when required. Repainting once in every two years.
6	Maintenance of guard rails and parapet rails as per clause 1912 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Maintenance as and when required. Repainting once in a year.
7	Maintenance of 200 m and Kilo Meter stones as per clause 1913 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Maintenance as and when required Repainting once in a year.
8	White washing guard stones	Once in year
9	Re-fixing displaced guard stones / KM stone / 200 meter stone/Sign board	Once in year
10	Maintenance of road delineators as per Clause 1914 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	As and when required
11	Cutting of branches of trees, shrubs and trimming of grass and weeds etc as per clause 1915 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Twice in a year generally before/after rains or as and when required
12	White washing parapets of CD Works as per Clause 1916 of the Specifications Rural Roads (First Revision) IRC New Delhi 2014.	Once in year

However Maintenance does not include replacement or erection of new signages / stones etc. at the time of yearly maintenance. **The amount equivalent to 5 % of each bill shall be withheld** and will be released after the free maintenance guarantee period of five year is over.

However this amount shall be released against fix deposit or Bank Guarantee pledged in the name of Executive Engineer after completion certificate of work is issued.

The contractor has to carry out routine maintenance as said above & has to report the Engineer-in-charge in the month of May and November of every year with a copy of the record of contractor's inspection and other instructions received from the Engineer-in-charge and maintenance carried out with colour photograph showing before and after maintenance (@ 3 nos. Of photographs per kilo metre of lane length with date and time digitally incorporated to be submitted by the contractor in 3 sets)

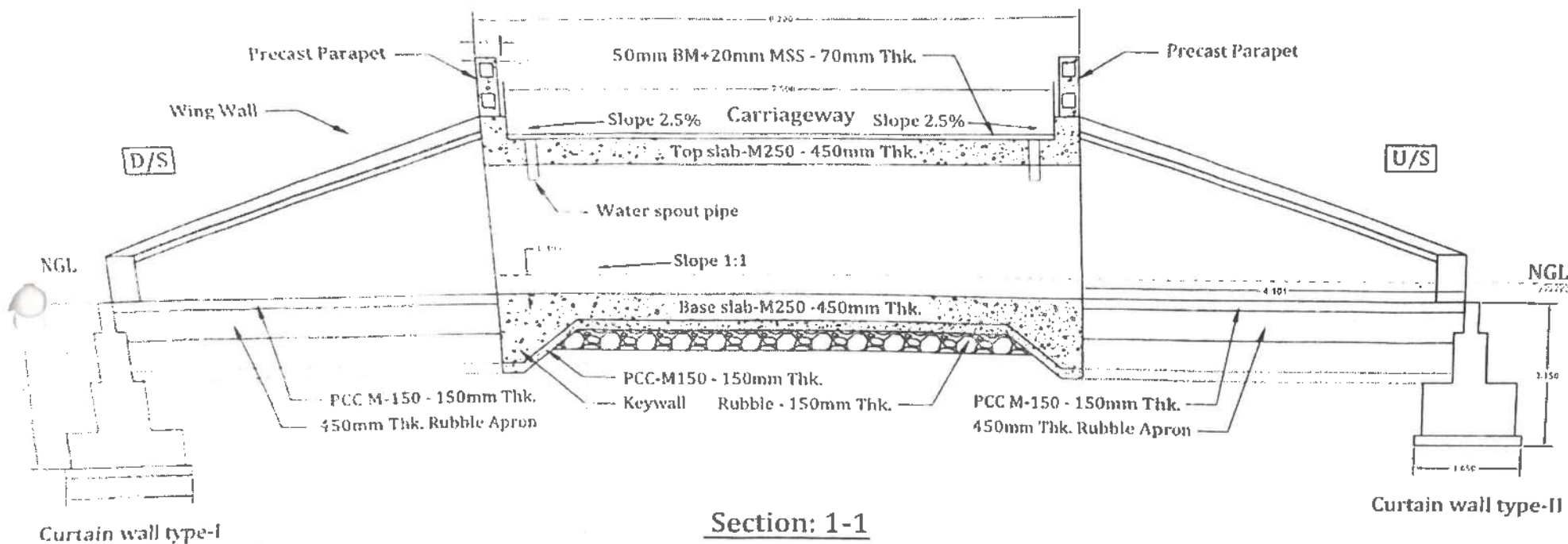
In the event of contractor not carrying out routine maintenance within time limit as specified above, the employer will get the maintenance work carried out through any source and the amount required **for this work shall be recovered from the 5% amount withheld for this purpose** available with the employer along with additional 20% of this amount as penalty.

  
Executive Engineer  
Panchayat (R&B) Division  
 Devbhumi Dwarka

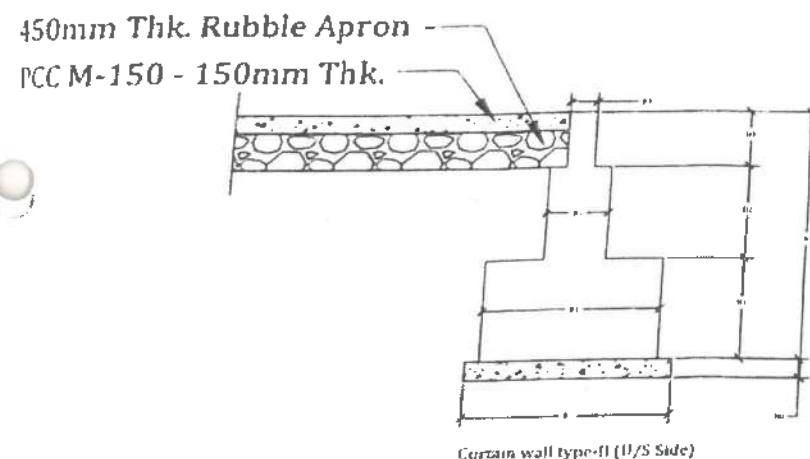


# ANNEXURE-B

Name of Work :- Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta:- Kalyanpur Dist:- Devbhumi Dwarka

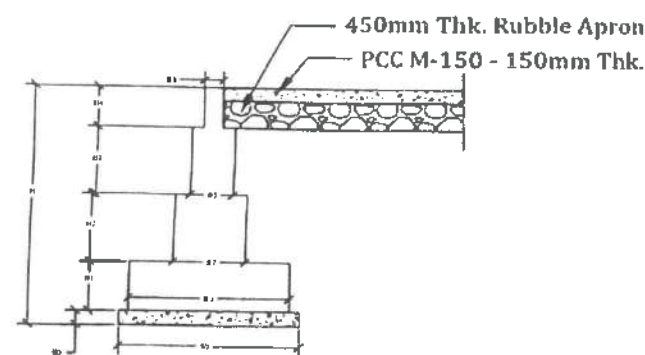


Section: 1-1  
For width selection



Salient Dimensions of Curtain Wall Type-I (m)

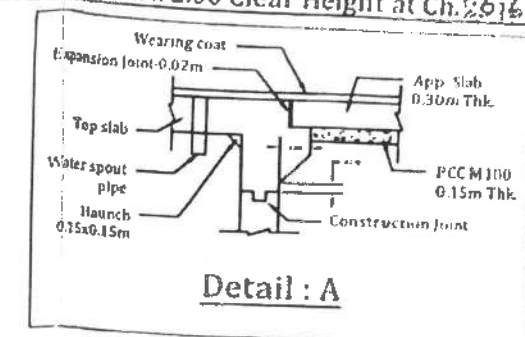
C/W Type-I Height (m)	H1	H0	H1	H2	H3
	2.15	0.15	0.80	0.75	0.45
C/W Type-I Width (m)	B0	B1	B2	B3	
	1.50	1.30	0.45	0.20	



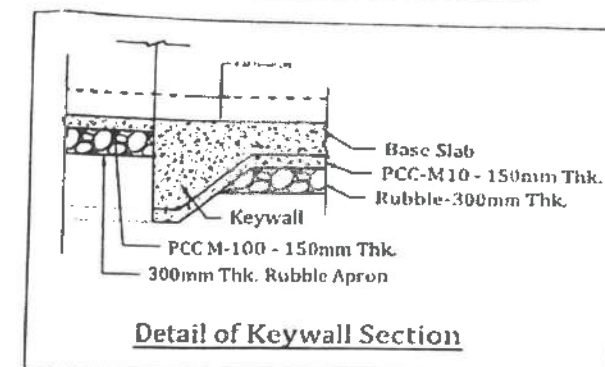
Salient Dimensions of Curtain Wall Type-II (m)

C/W Type-II Height (m)	H1	H0	H1	H2	H3	H4
	2.65	0.15	0.55	0.75	0.75	0.45
C/W Type-II Width (m)	B0	B1	B2	B3	B4	
	1.85	1.65	0.75	0.45	0.20	

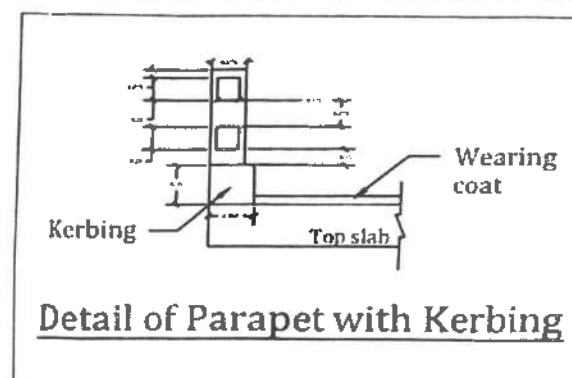
Box Culvert - 2 Cell x 3.00m Clear Width x 2.00 Clear Height at Ch. 20/460 - 20/800



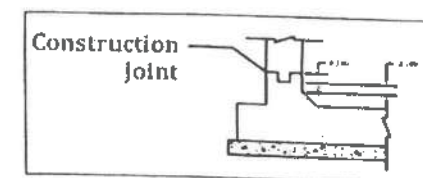
Detail : A



Detail of Keywall Section



Detail of Parapet with Kerbing



Detail : D

## NOTE:-

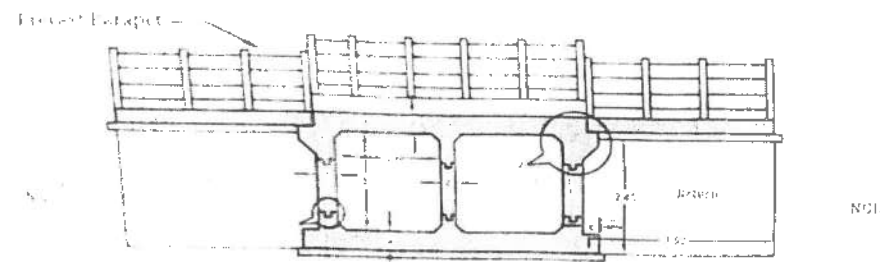
- 1) ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- 2) FOR GENERAL NOTE REFER SEPERATE STANDARD DRAWING
- 3) ALL THE DRAWINGS ARE NTS

Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

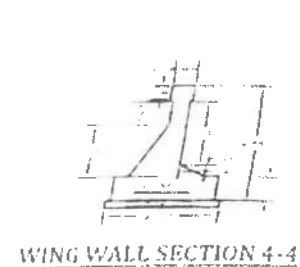
Name of Work :- Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta:- Kalyanpur Dist:- Deybhumi Dwarka

Box Culvert - 2 Cell x 3.00m Clear Width x 2.00 Clear Height at Ch. 2+500 - 2+800

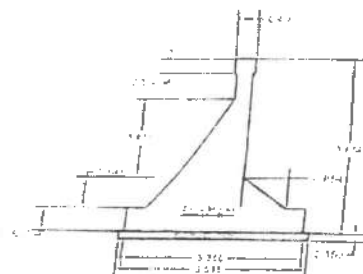
Suber Dimensions of Box Culvert (mm)							
Location Type	a	b	c	d	e	f	g
2x3x2-01	1000	1000	1000	1000	1000	1000	1000
2x3x2-02	1000	1000	1000	1000	1000	1000	1000
2x3x2-03	1000	1000	1000	1000	1000	1000	1000
2x3x2-04	1000	1000	1000	1000	1000	1000	1000
2x3x2-05	1000	1000	1000	1000	1000	1000	1000
2x3x2-06	1000	1000	1000	1000	1000	1000	1000
2x3x2-07	1000	1000	1000	1000	1000	1000	1000
2x3x2-08	1000	1000	1000	1000	1000	1000	1000
2x3x2-09	1000	1000	1000	1000	1000	1000	1000
2x3x2-10	1000	1000	1000	1000	1000	1000	1000
2x3x2-11	1000	1000	1000	1000	1000	1000	1000
2x3x2-12	1000	1000	1000	1000	1000	1000	1000
2x3x2-13	1000	1000	1000	1000	1000	1000	1000
2x3x2-14	1000	1000	1000	1000	1000	1000	1000
2x3x2-15	1000	1000	1000	1000	1000	1000	1000
2x3x2-16	1000	1000	1000	1000	1000	1000	1000
2x3x2-17	1000	1000	1000	1000	1000	1000	1000
2x3x2-18	1000	1000	1000	1000	1000	1000	1000
2x3x2-19	1000	1000	1000	1000	1000	1000	1000
2x3x2-20	1000	1000	1000	1000	1000	1000	1000



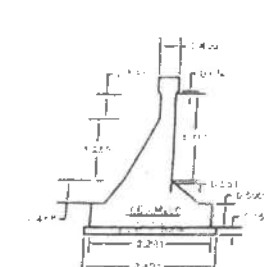
Section: 2-2  
For length selection



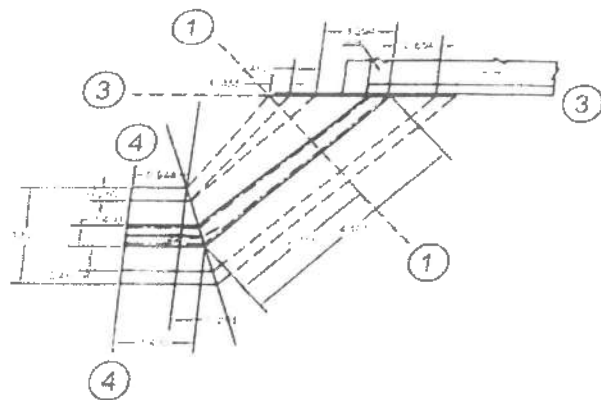
WING WALL SECTION 4-4



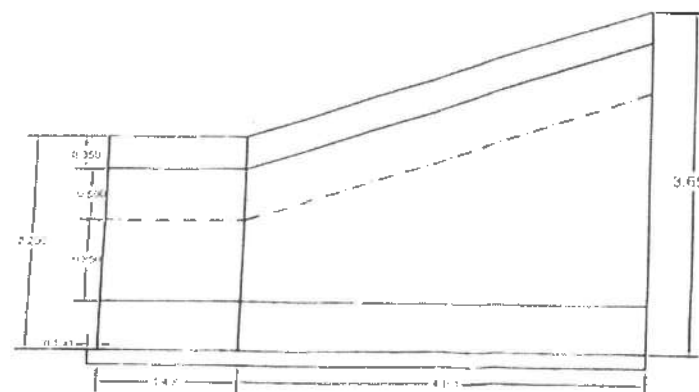
WING WALL SECTION 3-3



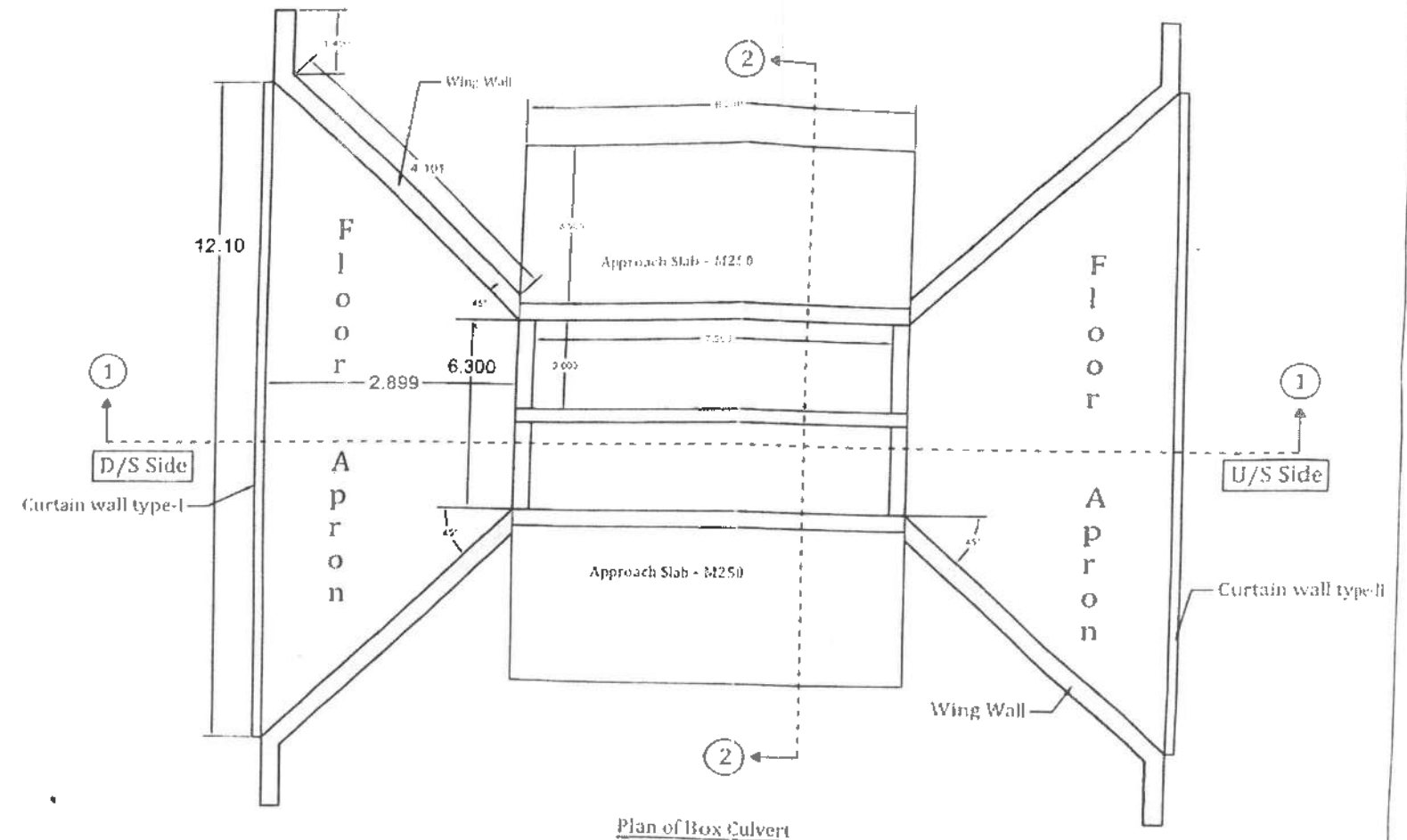
WING WALL SECTION 1-1



PLAN OF WING WALL



ELEVATION OF WING WALL



Plan of Box Culvert

NOTE:-

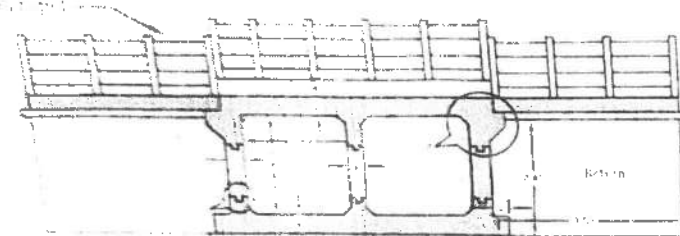
- 1) ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
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- 3) ALL THE DRAWINGS ARE NTS

Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

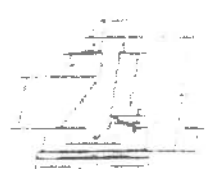
Name of Work - Construction of Box Culvert at various chainages on Ran Meyasa Virpur Aasota Road (MDR) Tal:- Kalyanpur Dist:- Devbhumi Dwarka

Box Culvert - 2 Cell x 3.00m Clear Width x 2.00 Clear Height at Ch. 12/550 - 12/700

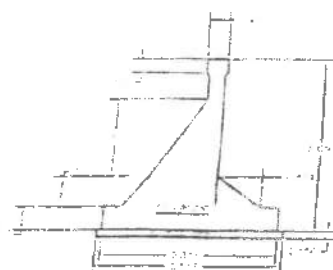
Suggested dimensions of Box Culvert (mm)							
Clear width	Clear height	Wall thickness	Base thickness	Top slab thickness	Bottom slab thickness	Side wall thickness	End wall thickness
3000	2000	150	150	150	150	150	150



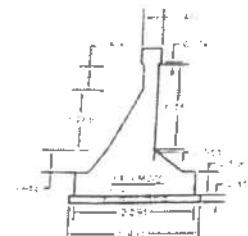
Section: 2-2  
For Length selection



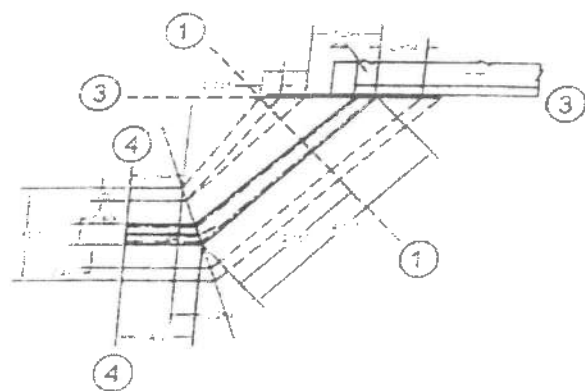
WING WALL SECTION 4-4



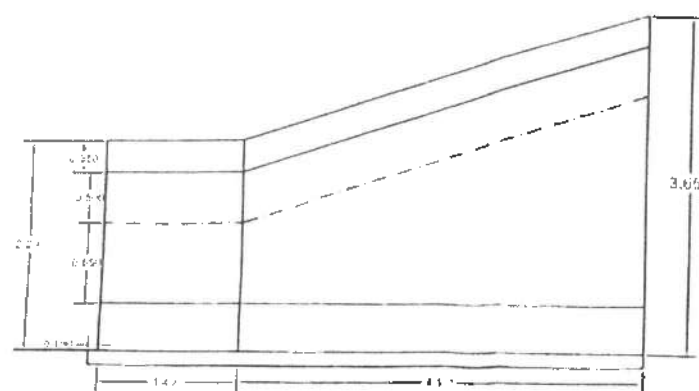
WING WALL SECTION 3-3



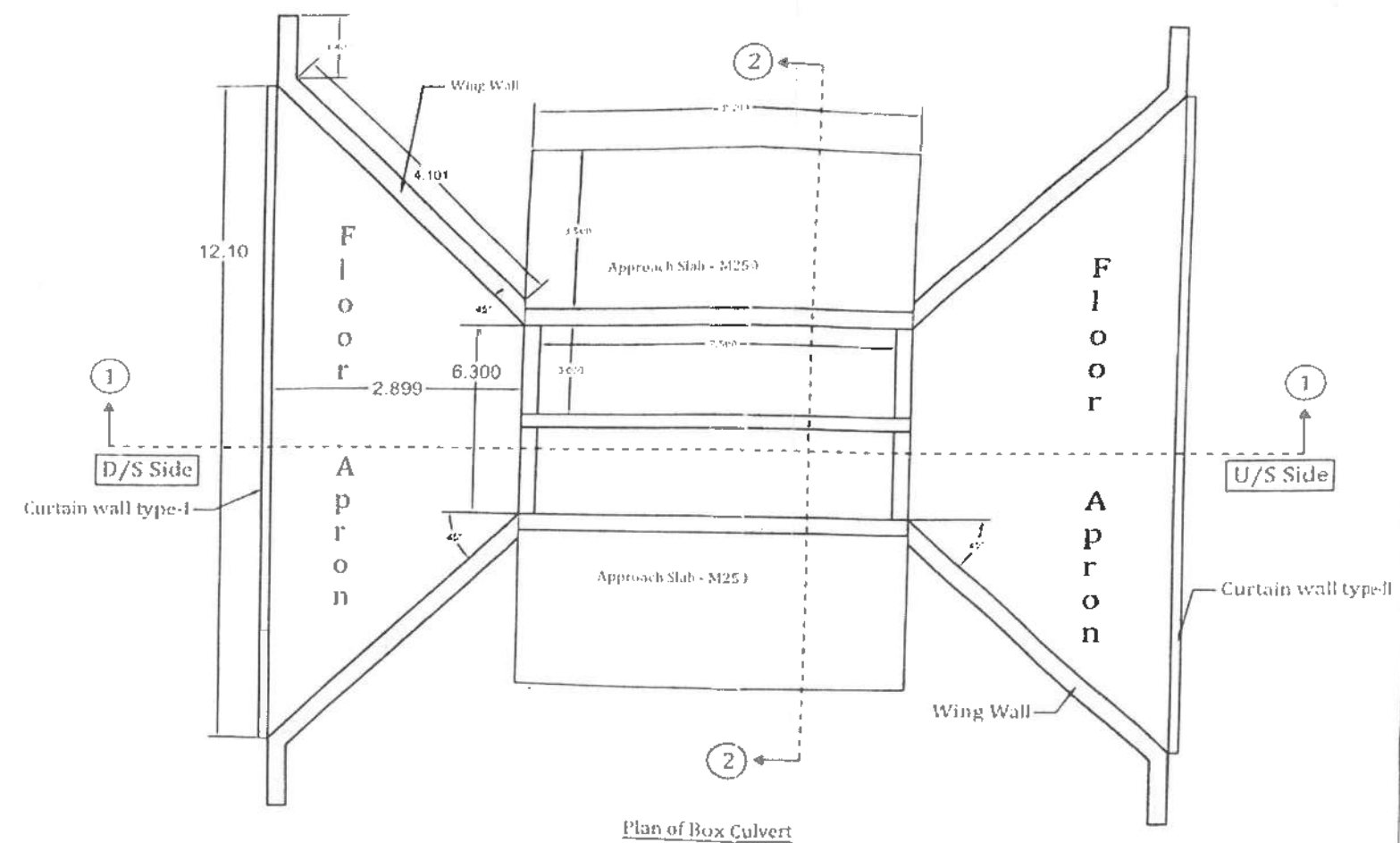
WING WALL SECTION 1-1



ELEVATION OF WING WALL



ELEVATION OF WING WALL



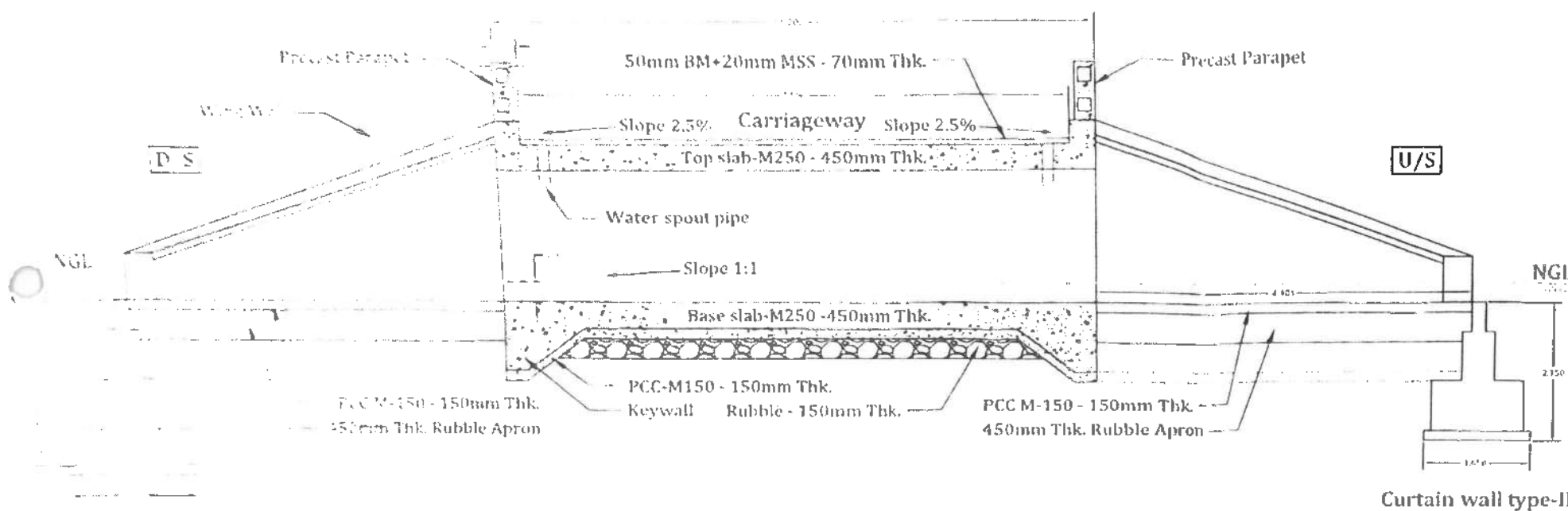
Plan of Box Culvert

NOTE:-  
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2) FOR GENERAL NOTE REFER SEPERATE STANDARD DRAWING  
3) ALL THE DRAWINGS ARE IN TS

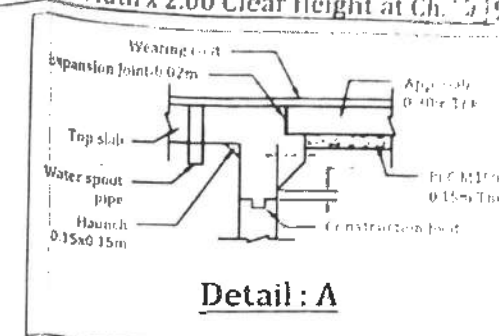
Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

Name of Work - Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta:- Kalyanpur Dist:- Devbhumi Dwarka

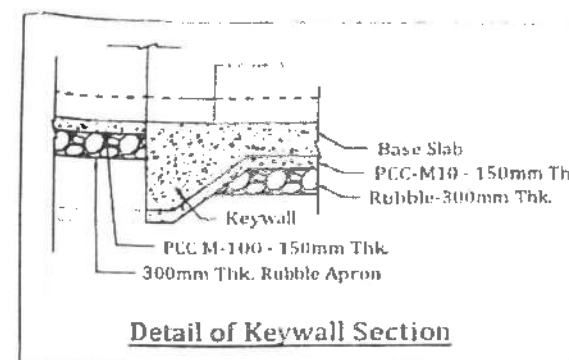
Box Culvert - 2 Cell x 3.00m Clear Width x 2.00 Clear Height at Ch. 1000 - 12700



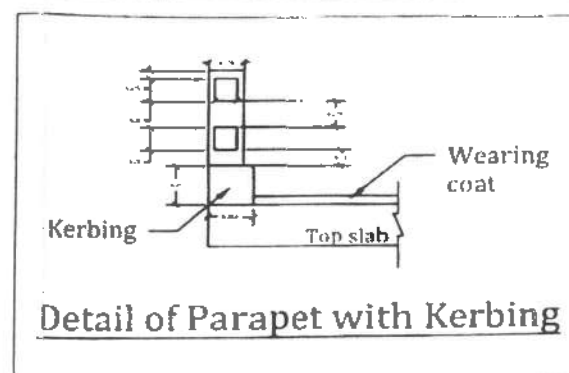
Section: 1-1  
For width selection



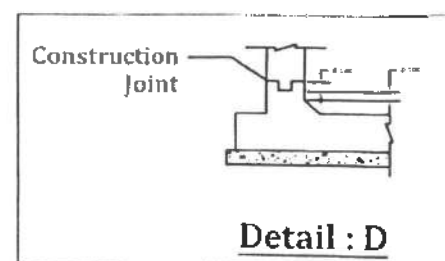
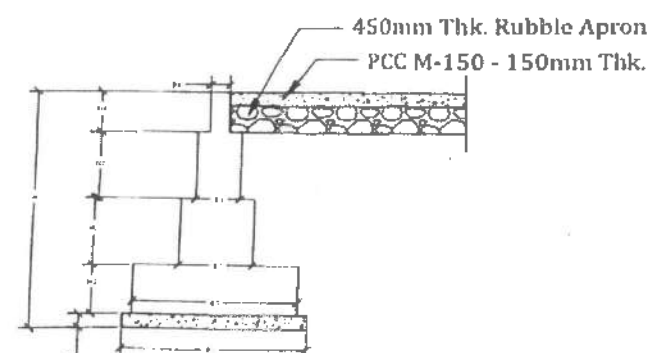
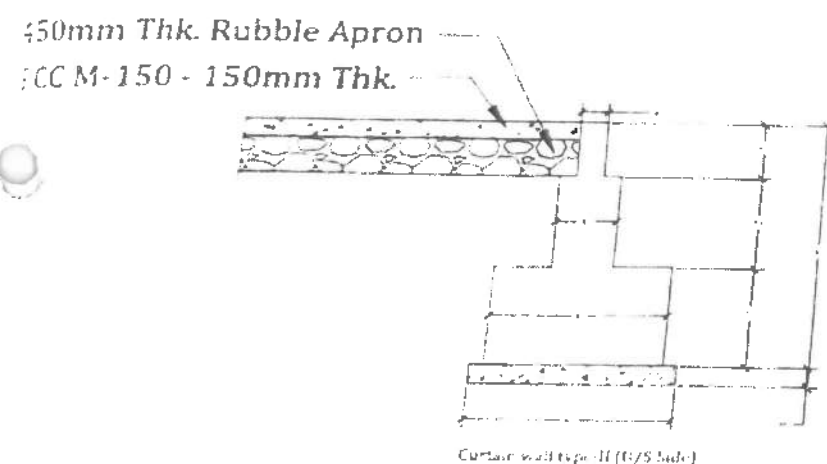
Detail: A



Detail of Keywall Section



Detail of Parapet with Kerbing



Detail: D

Salient Dimensions of Curtain Wall Type-I (m)

C/W Type-I Height (m)	H	H0	H1	H2	H3
2.15	0.15	0.80	0.75	0.45	
C/W Type-II Width (m)	B0	B1	B2	B3	
	1.50	1.30	0.45	0.20	

Salient Dimensions of Curtain Wall Type-II (m)

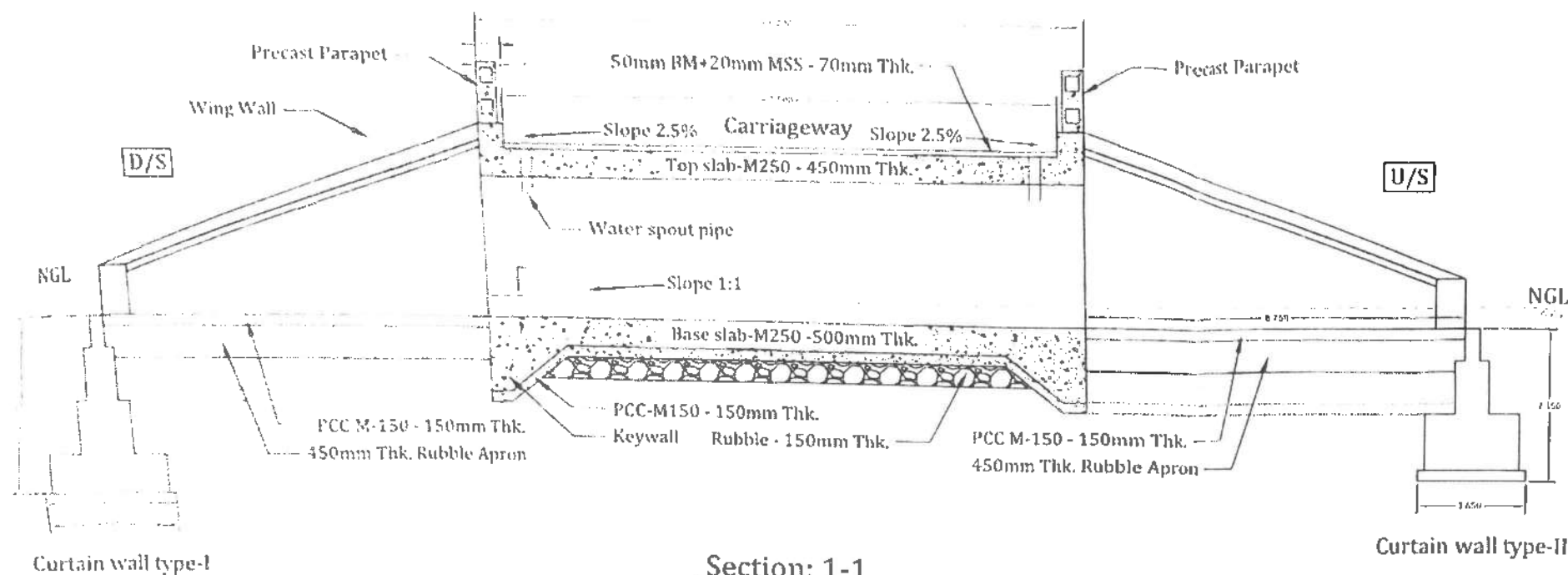
C/W Type-II Height (m)	H	H0	H1	H2	H3	H4
2.65	0.15	0.55	0.75	0.75	0.45	
C/W Type-II Width (m)	B0	B1	B2	B3	B4	
	1.85	1.65	0.75	0.45	0.20	

NOTE:-  
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2) FOR GENERAL NOTE REFER SEPERATE STANDARD DRAWING  
3) ALL THE DRAWINGS ARE NTS

Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

Name of Work : Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Tal:- Kalyanpur Dist:- Devbhumi Dwarka

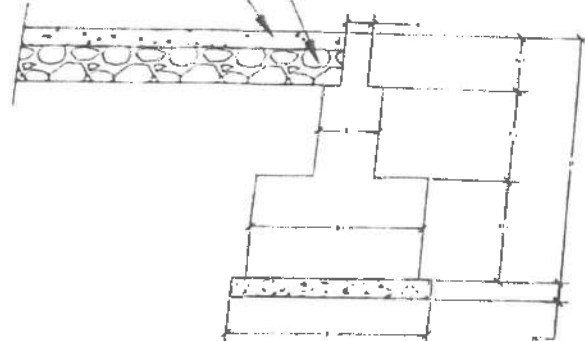
Box Culvert -4 Cell x 3.00m Clear Width x 3.00 Clear Height at Ch. 9/200-10/100



Section: 1-1

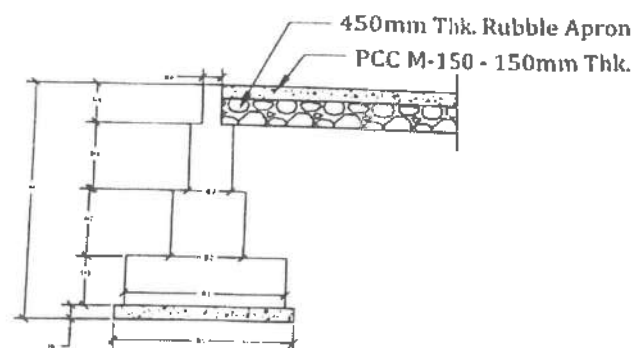
For width selection

450mm Thk. Rubble Apron  
PCC M-150 - 150mm Thk.



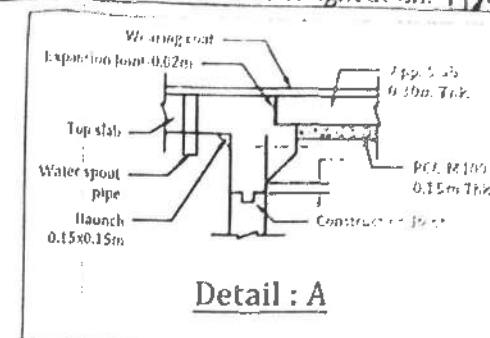
Curtain wall type-II (U/S Side)

Salient Dimensions of Curtain Wall Type-I (m)					
C/W Type-II Height (m)	H	H0	H1	H2	H3
	2.15	0.15	0.80	0.75	0.45
C/W Type-II Width (m)	B0	B1	B2	B3	
	1.50	1.30	0.45	0.20	

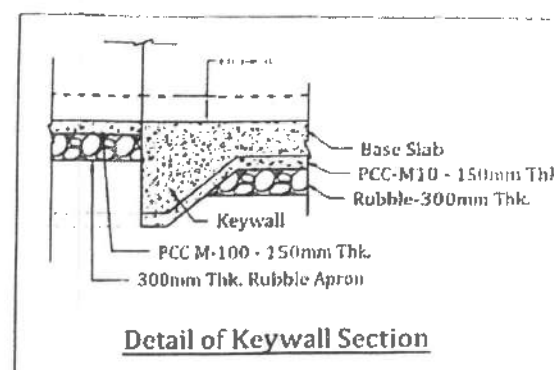


Curtain wall type-I (D/S Side)

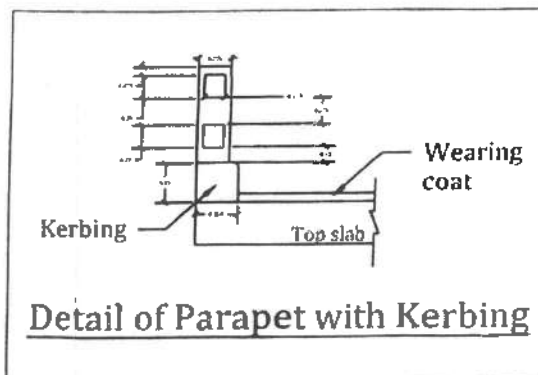
Salient Dimensions of Curtain Wall Type-II (m)						
C/W Type-I Height (m)	H	H0	H1	H2	H3	H4
	2.65	0.15	0.55	0.75	0.75	0.45
C/W Type-I Width (m)	B0	B1	B2	B3	B4	
	1.85	1.65	0.75	0.45	0.20	



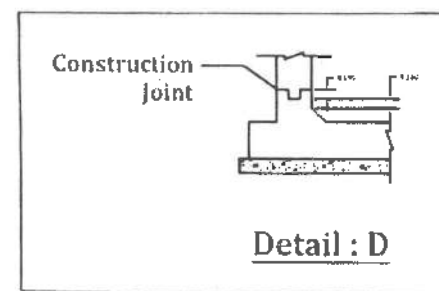
Detail : A



Detail of Keywall Section



Detail of Parapet with Kerbing



Detail : D

NOTE:-

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2) FOR GENERAL NOTE REFER SEPERATE STANDARD DRAWING

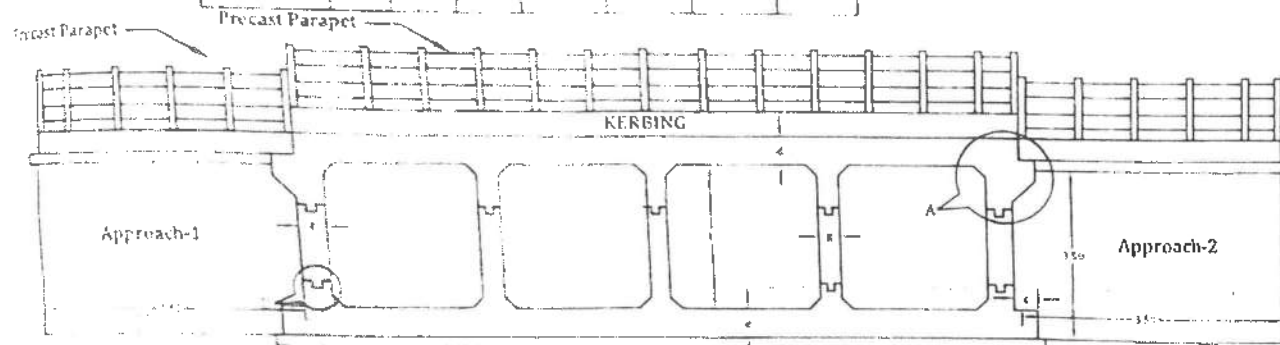
3) ALL THE DRAWINGS ARE NTS

Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

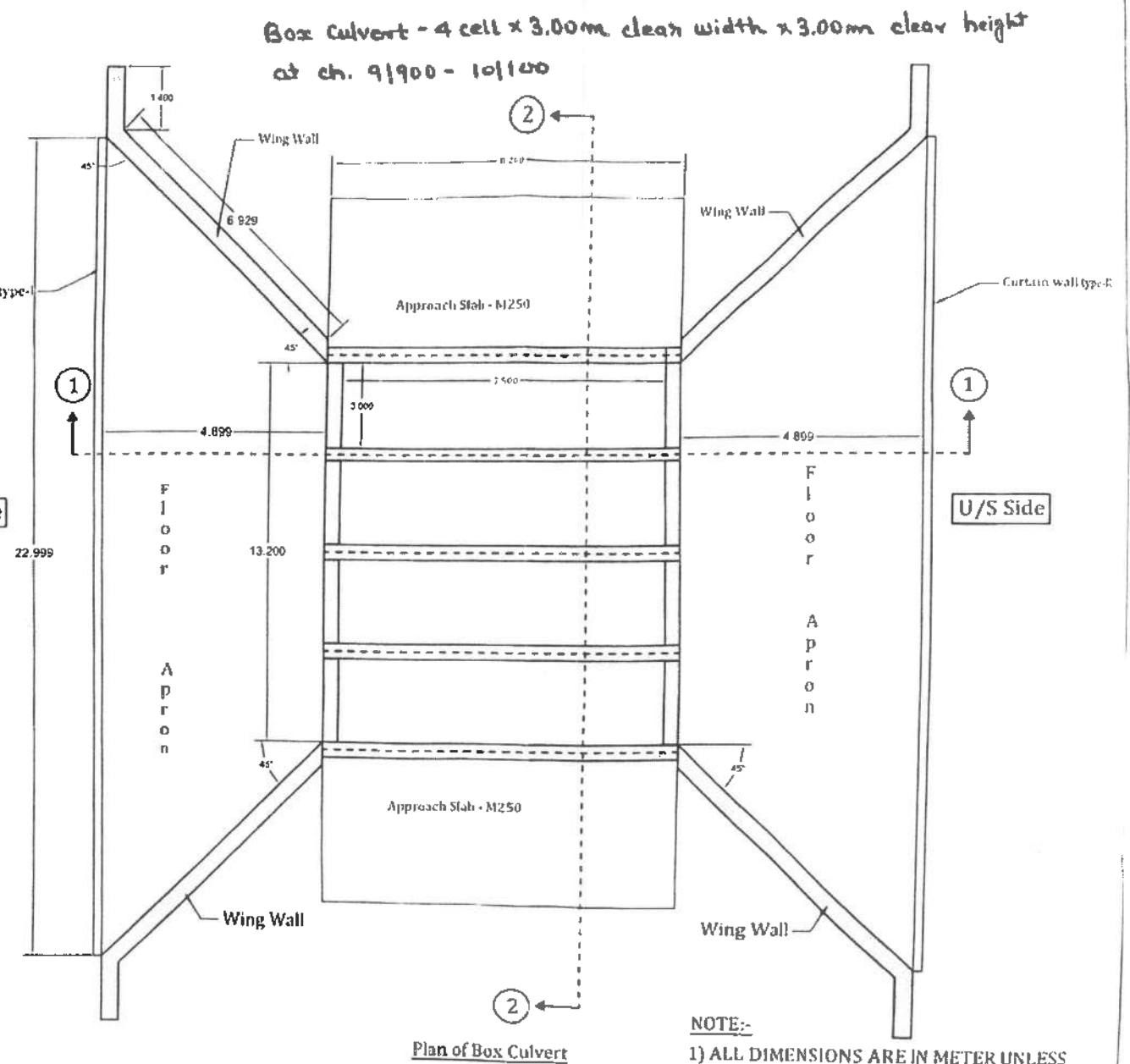
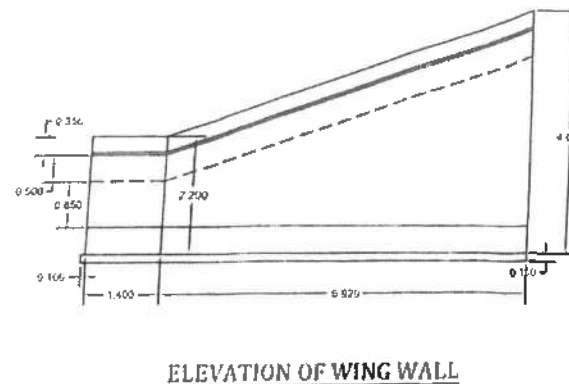
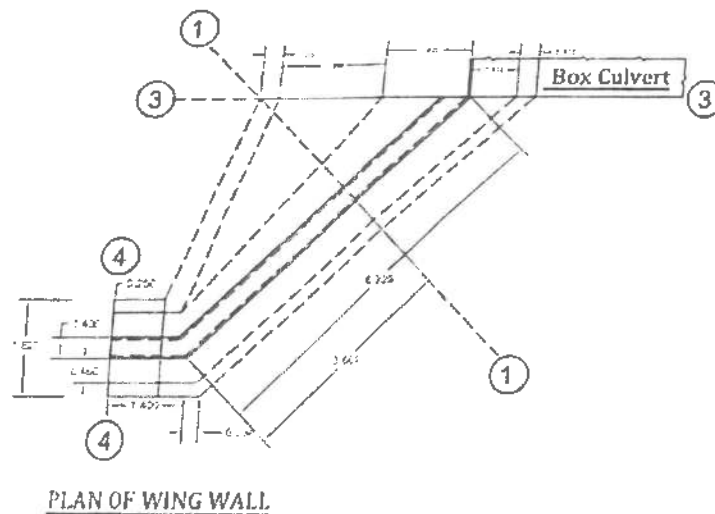
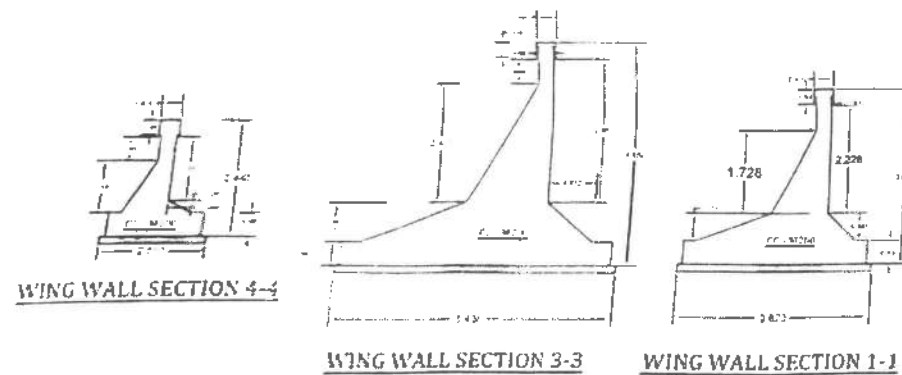


Name of Work :- Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta:- Kalyanpur Dist:- Devbhumi Dwarka

Salient Dimensions of Box Culvert (mm)							
Box Cell Type	a	b	c	d	e	f	g
4x3x3-00	Clear Width	Clear Height	Bottom Offset	Deck slab T&A	Bottom slab Thk	Outer cell wall Thk	Inner cell wall Thk
	3000	3000	300	450	500	470	400



Section: 2-2  
For Length selection

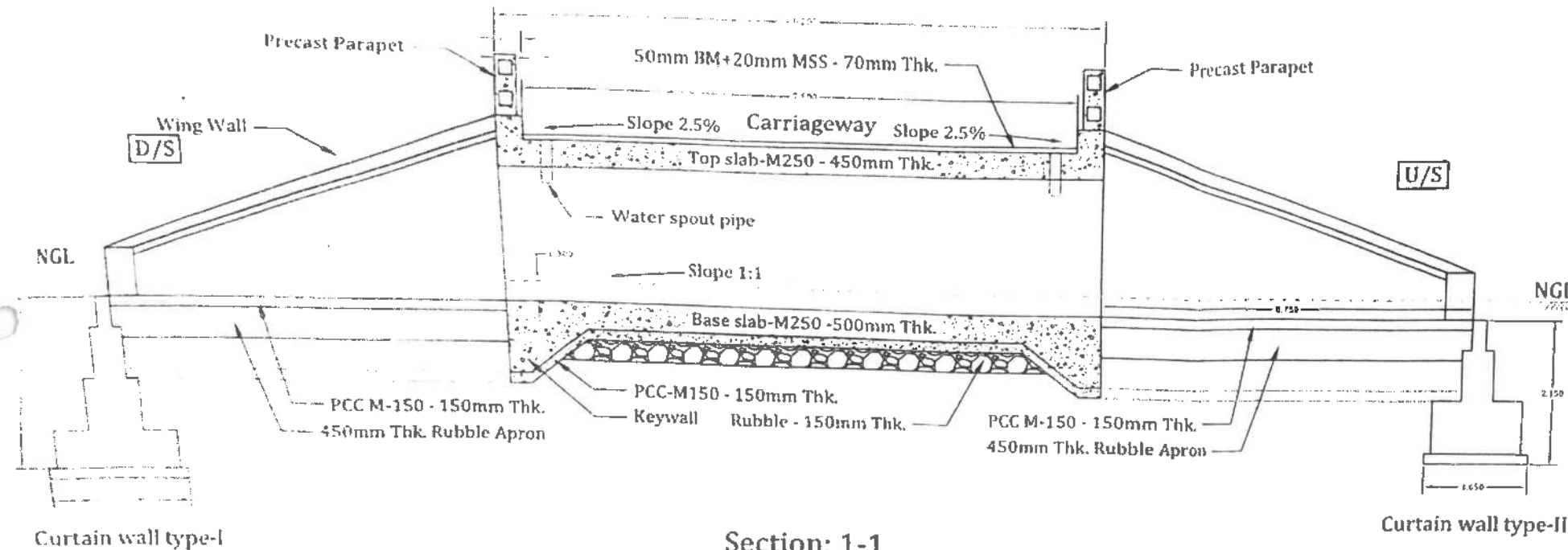


NOTE:-  
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3) ALL THE DRAWINGS ARE NTS

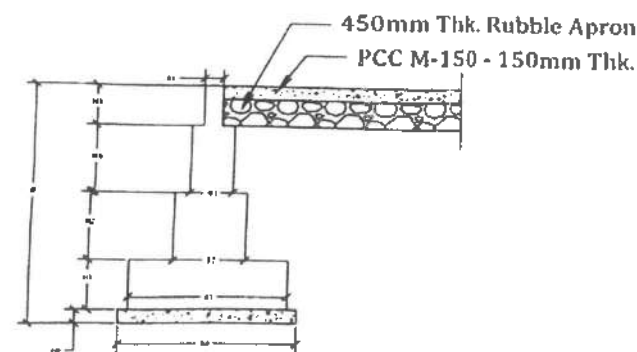
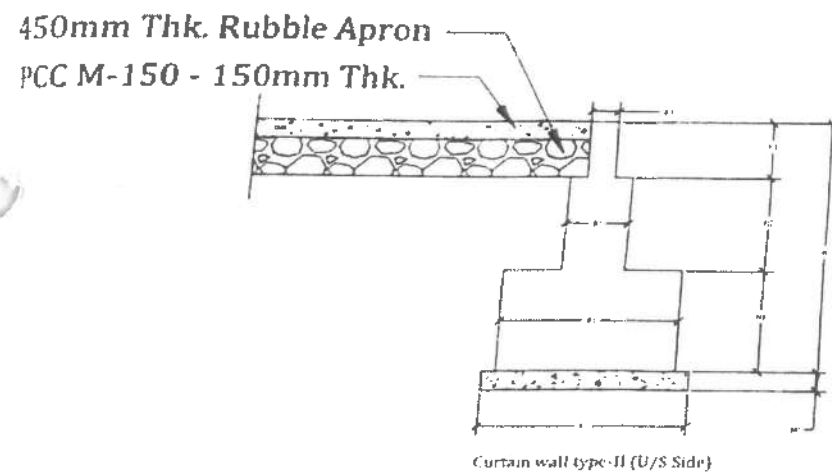
Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

Name of Work :- Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta:- Kalyanpur Dist:- Devbhumi Dwarka

Box Culvert - 5 Cell x 3.00m Clear Width x 3.00 Clear Height at Ch. 200 - 2200



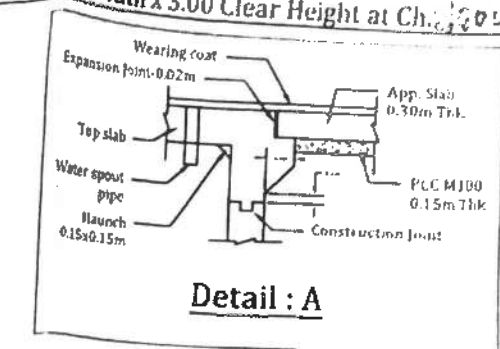
Section: 1-1  
For width selection



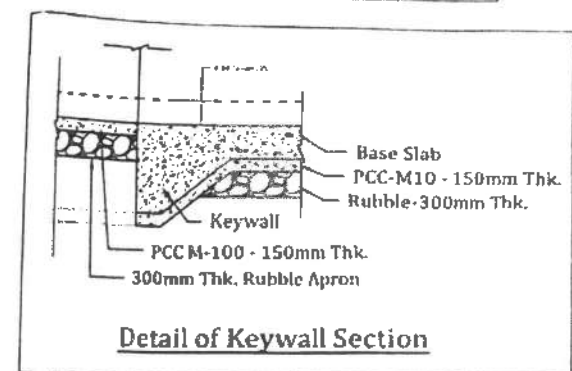
Curtain wall type-I (D/S Side)

Salient Dimensions of Curtain Wall Type-I (m)					
C/W Type-I Height (m)	H	H0	H1	H2	H3
	2.15	0.15	0.80	0.75	0.45
C/W Type-I Width (m)	B0	B1	B2	B3	
	1.50	1.30	0.45	0.20	

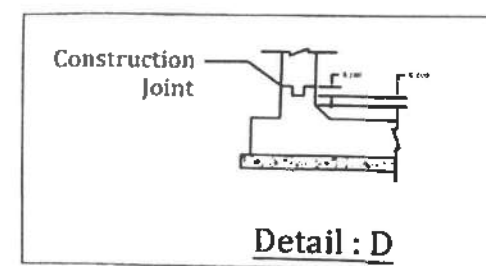
Salient Dimensions of Curtain Wall Type-II (m)						
C/W Type-II Height (m)	H	H0	H1	H2	H3	H4
	2.65	0.15	0.55	0.75	0.75	0.45
C/W Type-II Width (m)	B0	B1	B2	B3	B4	
	1.05	1.65	0.75	0.45	0.20	



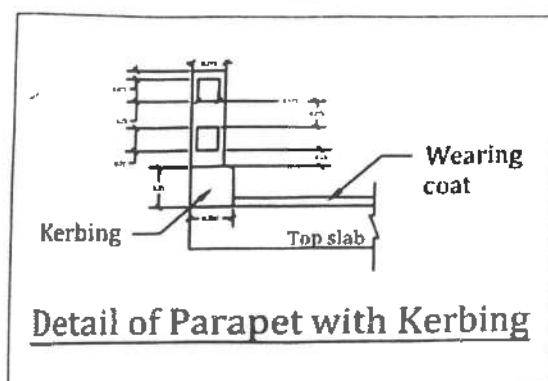
Detail : A



Detail of Keywall Section



Detail : D



Detail of Parapet with Kerbing

NOTE:-

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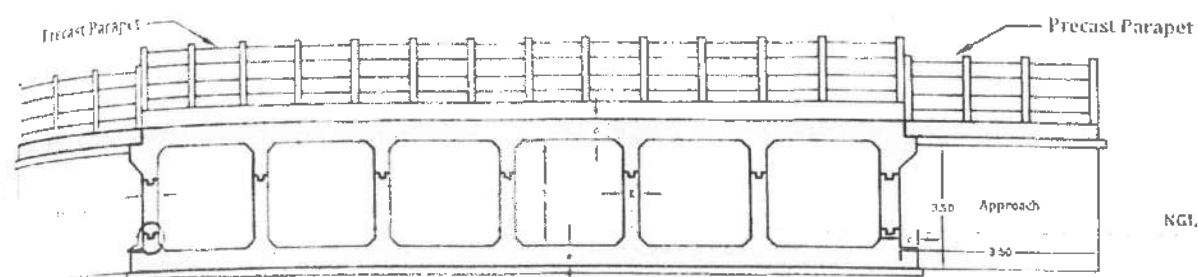
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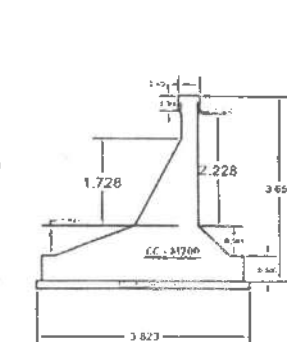
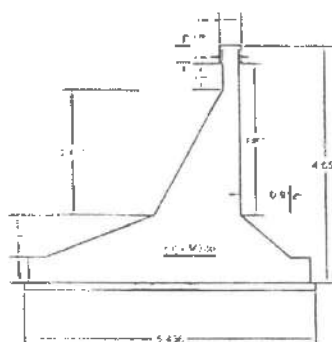
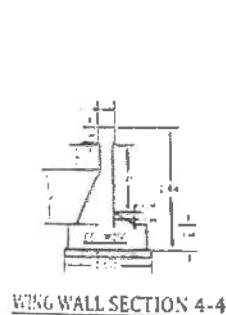
Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	

Name of Work :- Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta.:- Kalyanpur Dist.:- Devbhumi Dwarka

Salient Dimensions of Box Culvert (mm)							
Box Cell Type	a	b	c	d	e	f	g
5x3x3-00	Clear Width	Clear Height	Bottom Inset	Deck slab Thk.	Bottom slab Thk.	Outer cell wall Thk.	Inner cell wall Thk.
	3000	3000	300	450	500	470	400

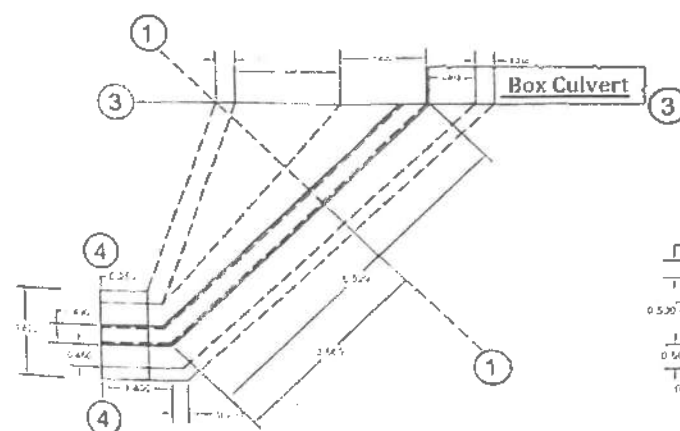


Section: 2-2  
For Length selection

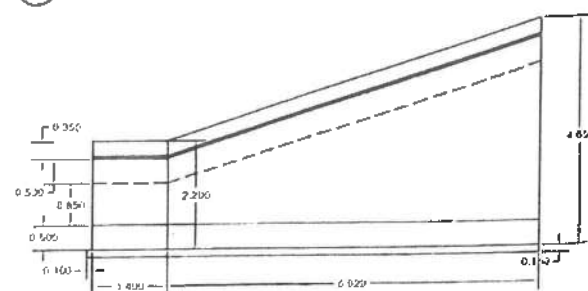


WING WALL SECTION 3-3

WING WALL SECTION 1-1

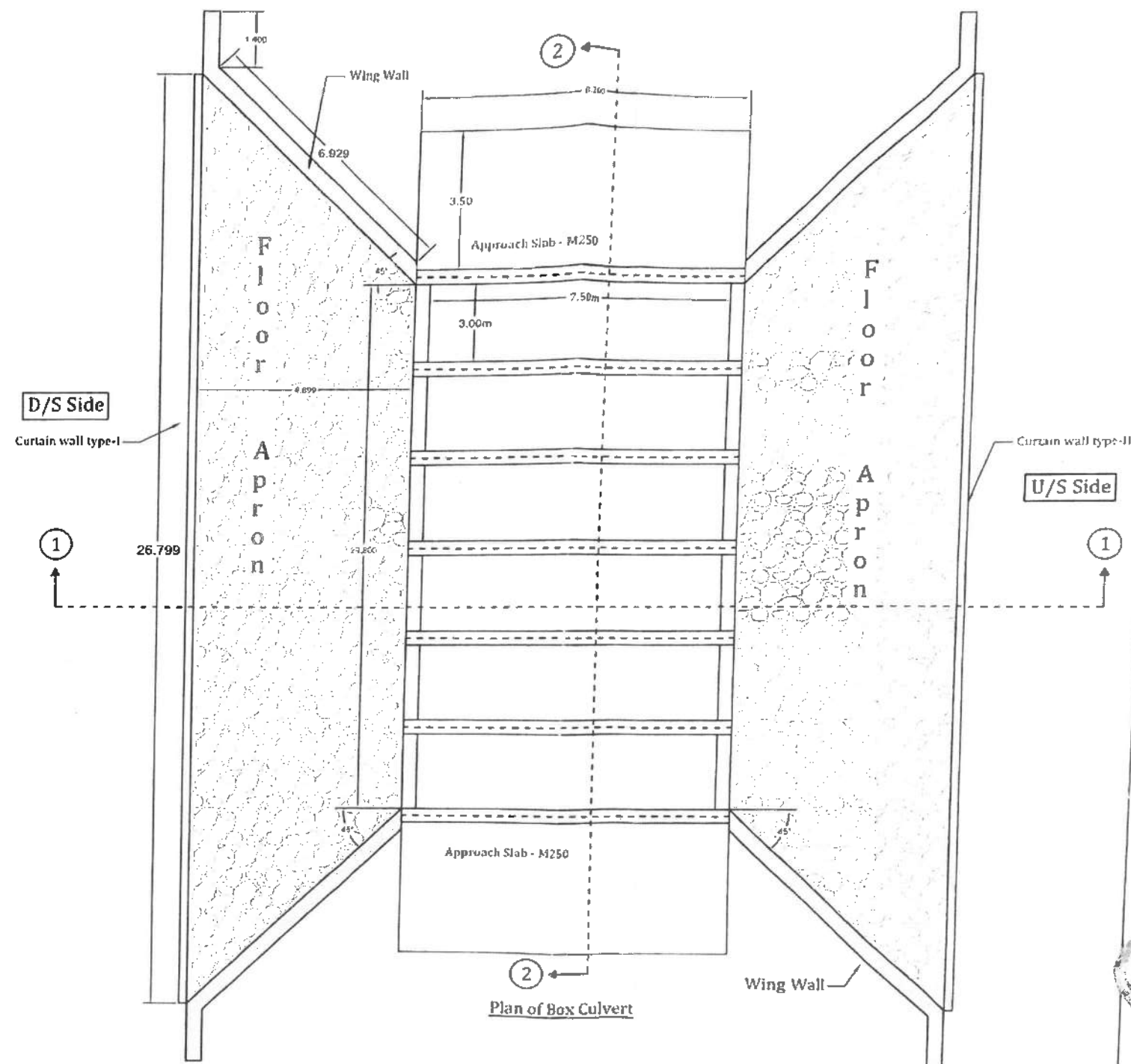


PLAN OF WING WALL



ELEVATION OF WING WALL

Box Culvert -6 Cell x 3.00m Clear Width x 3.00 Clear Height at Ch. 2+000-2+200



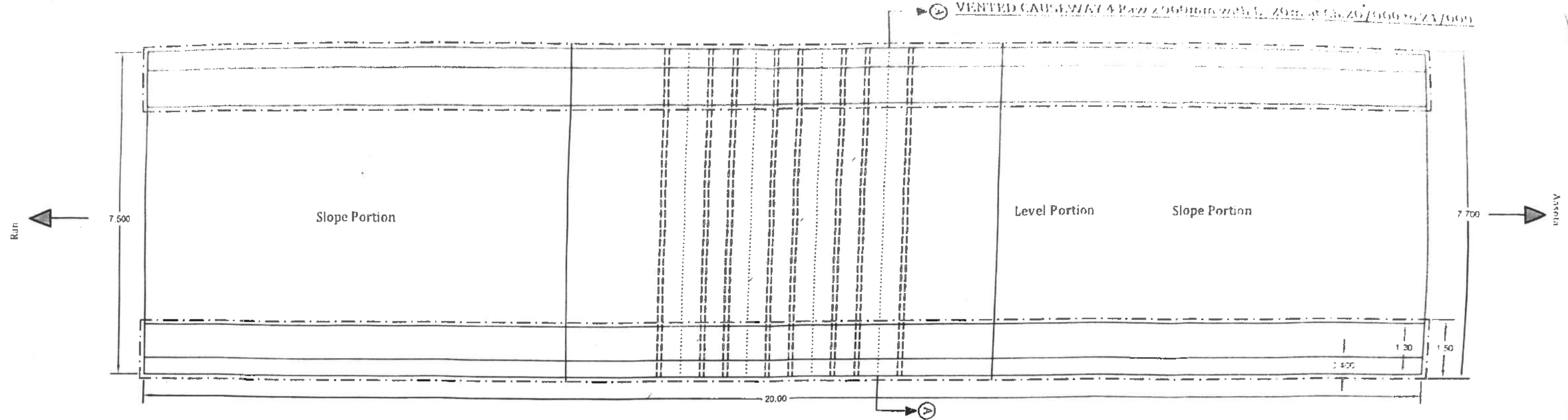
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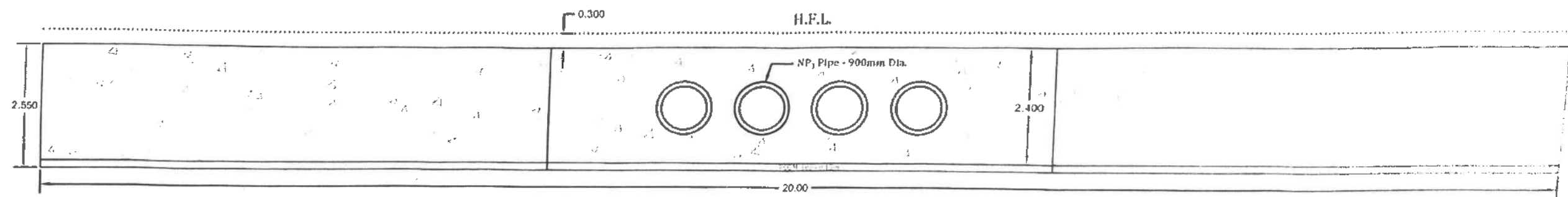
Sign:-		Sign:-	
Deputy Executive Engineer Panchayat R & B Sub Division Devbhumi Dwarka		Executive Engineer Panchayat R & B Division Devbhumi Dwarka	



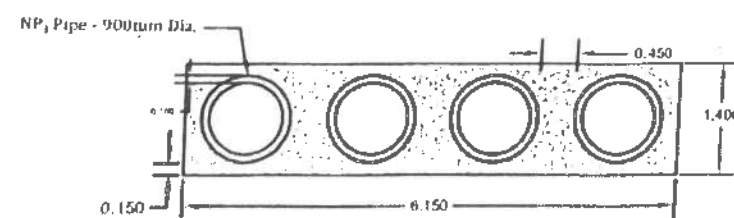
Name of Work :- Construction of Box Culvert at various chainages on Ran 1462000 to 1462000 at Ran 1462000 to 1462000



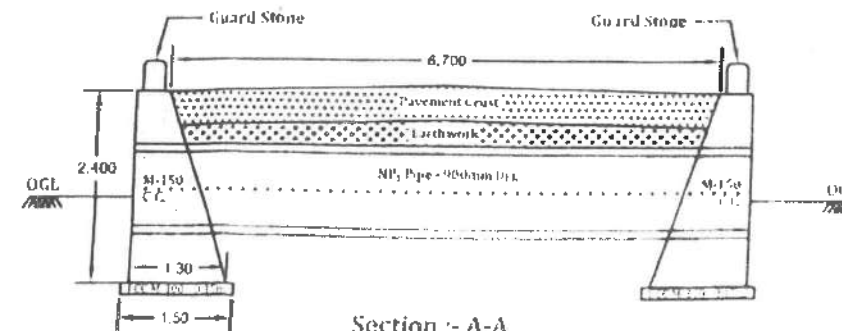
Plan of Vented Causeway



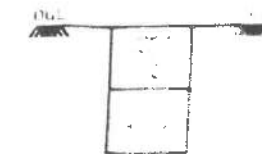
Elevation of Vented Causeway



Credle Section of Vented Causeway



Section :- A-A



Trial Pit of Vented Causeway

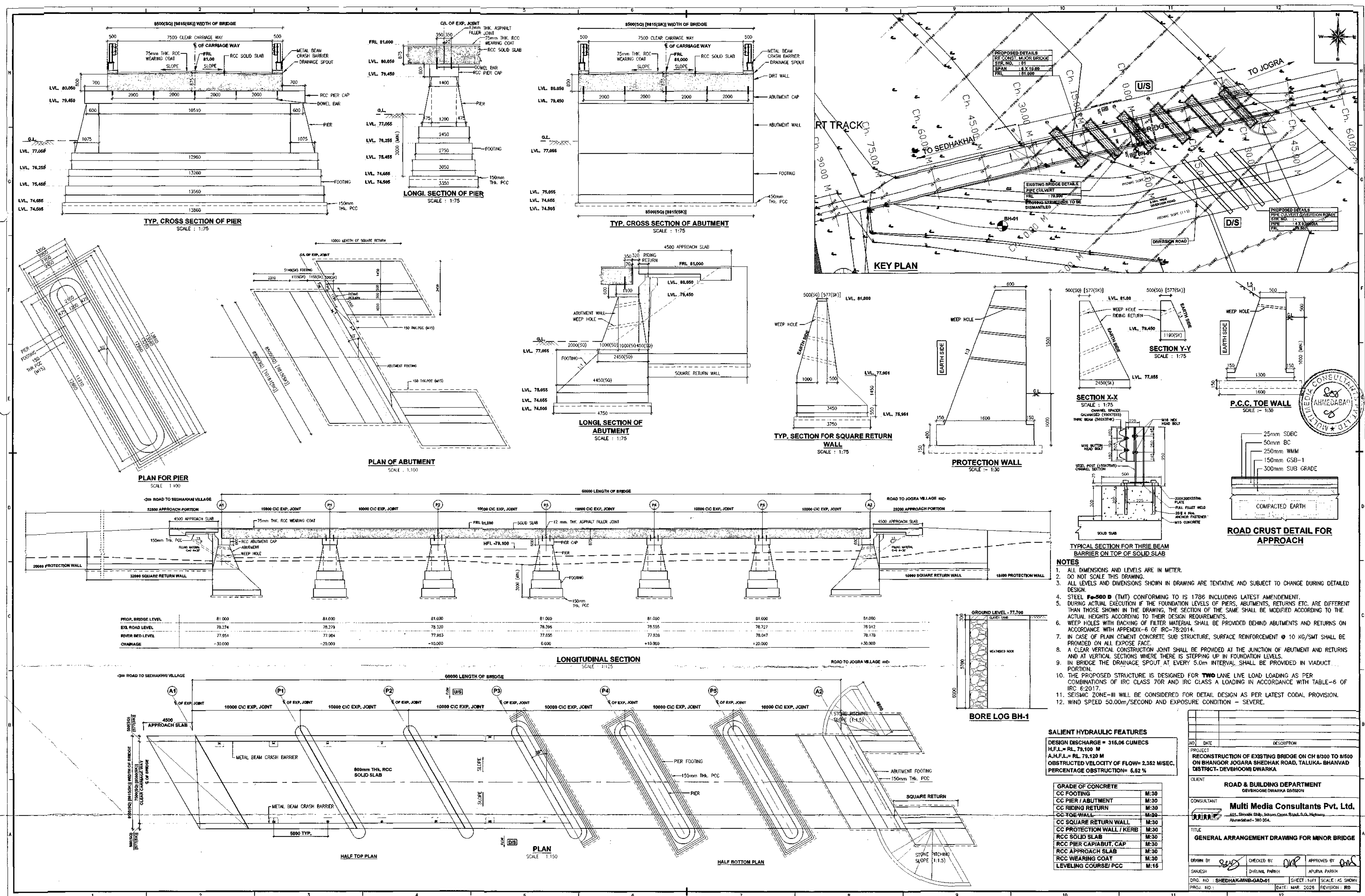
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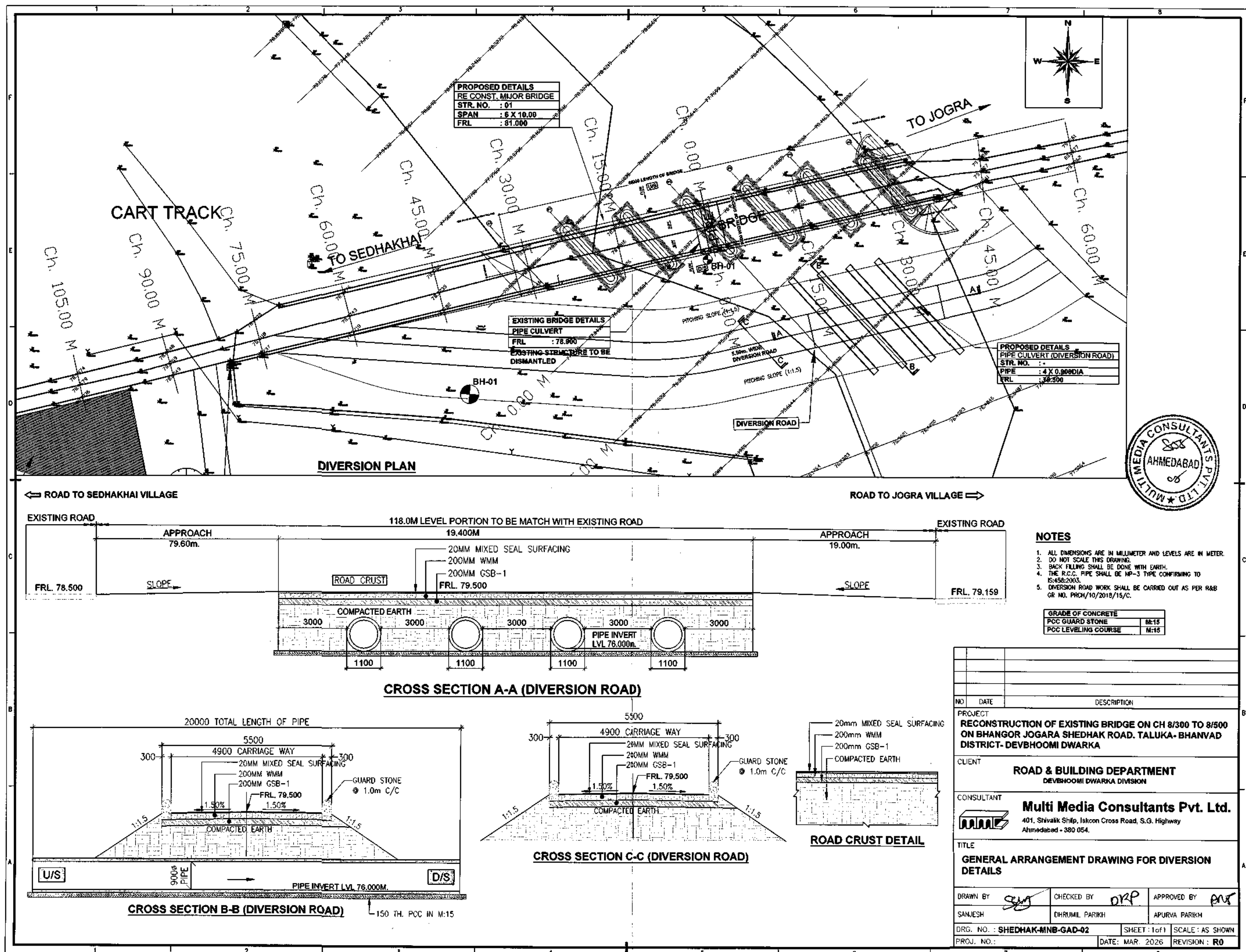
Deputy Executive Engineer  
Panchayat R & B Sub Division  
Devbhumi Dwarka

Sign:-

Executive Engineer  
Panchayat R & B Division  
Devbhumi Dwarka

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**GOVERNMENT OF GUJARAT**  
**ROADS & BUILDINGS DEPARTMENT**



सत्यमेव जयते

**TENDER PAPER**

**NAME OF WORK:**

RECONSTRUCTION OF MINOR BRIDGES, BOX  
CULVERTS & PIPE CULVERTS AT VARIOUS  
LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT  
(PANCHAYAT) UNDER MMGSY, IN THE STATE OF  
GUJARAT (PACKAGE-3).

**NOT PUT TO TENDER**

**Executive Engineer**  
**R&B Panchayat Division,**  
**Dev-Bhoomi Dwarka**



**RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**BILL OF QUANTITIES (BOQ)**

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (In Rs.)
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle.	0.74	One Hect.	28,455.09	21,056.77
2	Demarcation of road alingment including marking out road line by providing and fixing wooden pegs or steel rod of required size at every 25 M to 50 M. including excavating trenches on both sodes of 0.30 m. x 0.30M. including supplying of labours and all materials for every work etc complete.	0.15	One Km.	2,706.50	392.44
3	Portable Barricade in Construction Zone (Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 450, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 )	20.00	One No.	3,035.05	60,701.00
4	Diversion of water course, providing cofferdam and bund or island as may be necessary for foundation and maintaining the same for the period as may be necessary.	5.00	One No.	50,000.00	2,50,000.00
5	Earthwork for embankment including breaking clods, dressing with all lead and lift (Excluding watering and consolidation) (A) Selected soil should be From borrow area with all lead and lift and should have CBR not less than 6.00%.	5260.10	One Cum	163.62	8,60,660.47
6	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T.(E) From Borrow area including all lead & lift	2475.00	One Cum	177.91	4,40,327.25

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
7	WBM Grading-2 Providing, laying, spreading and compacting stone agg. Of 63mm to 45mm size to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stage to proper grade and camber, applying and brooming, stone screening/binding material to fill-up the intersties of coarse agg., watering and compacting to the required density grading-2 as per Technical Specification Clause.405 By manual means.	195.60	One Cum	2,105.57	4,11,850.39
8	Rolling and Watering of earthwork with vibratory roller including filling in depression which occur during the process and as directed.	4957.20	One Cum	22.95	1,13,767.74
9	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. (B) Dense or hard soil.	59.50	One Cum	253.88	15,105.86
10	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. (C) Hard Murrum	36.00	One Cum	432.61	15,573.96
11	Excavation of foundation in Sand gravel caly soft soil and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed. Depth upto 3.00mt.	2565.10	One Cum	511.11	13,11,048.58
12	Excavation of foundation in hard murrum and boulders and very stiff or sticky clays and other similar strata including shorting out and strutting and dewatering as necessary and disposing of the excavated stuff as directed.	896.00	One Cum	611.32	5,47,742.72
13	Excavation in large boulders and soft rock by wedging including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed,	500.00	One Cum	716.55	3,58,277.30
14	Excavation in hard rock by dry-wet blasting and chiseling including dewatering preparing foundation base by proper benching and stepping and disposing of the excavated stuff as directed (B) Blasting prohibited.	585.00	One Cum	1,675.31	9,80,054.71



Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (In Rs.)
15	Providing and fixing Mild steel dowel bar of minimum 32mm dia. For anchoring by drilling holes in foundation strata including necessary bending, hooking of dowel bars and grouting the holes complete as per detailed drawing and as directed.	155.00	One Rmt.	450.07	69,760.25
16	Providing and laying rubble for apron (Each stone weighting not less than 40kg) including and packing and filling in the interstices with quarry spall.	288.10	One Cum	1,083.81	3,12,245.66
17	Providing and filling in foundation with ordinary cement concrete M-15 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	501.90	One Cum	3,715.62	18,64,869.68
18	Providing and casting in situ ordinary cement concrete M-15 mix and providing necessary pin headers including shuttering, scaffolding, laying vibrating, curing and finishing complete Without V-Grooves For all Hieght.	110.20	One Cum	3,921.63	4,32,163.63
19	Providing and filling in foundation with ordinary cement concrete M-10 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	26.60	One Cum	3,345.58	88,992.43
20	Providing and filling in foundation with ordinary cement concrete M-15 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	171.20	One Cum	3,715.63	6,36,115.58
21	Providing & laying 22.5 cm thick dry rubble stone pitching on side slope on existing earthwork on murrum bed 7.50 cm thick & filling interstic with murrum & providing Flush pointing in CM 1:3 etc complete including curing & preparing slope in Earth work as directed.	324.00	One Sqm	795.88	2,57,865.12
22	Providing parapet of ordinary cement concrete M-20 as per detailed drawing with necessary reqinforcement including shuttering laying vibrating and finishing to line and level complete (ii) cast in situ.	154.60	One Rmt.	1,082.18	1,67,305.03
23	Providing and casting in situ Controlled cement concrete M-20 for R.C.C. work in Piers, abutment, returns and riding returs as per drawing including centering, shuttering, scaffolding where necessary laying, vibrating curing and finishing complete (A) For all Height	1493.10	One Cum	5,198.58	77,61,999.80



Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
24	Providing and casting in situ Controlled cement concrete M-30 for C.C. work in Piers, abutment, returns and riding returns as per drawing including centering, shuttering, scaffolding where necessary laying, vibrating curing and finishing complete (A) For all Height	545.00	One Cum	5,462.90	29,77,279.46
25	Providing and casting in situ Ordinary cement concrete M-20 for C.C. Toe Wall and Curtain walls including necessary shuttering laying, vibrating, ramming and curing complete.	40.00	One Cum	4,142.22	1,65,688.88
26	Providing and casting in situ Controlled Cement Concrete M-25 for R.C.C. Raft and cut-off walls including necessary shuttering laying, vibrating ramming of curing complete.	418.90	One Cum	4,697.25	19,67,678.03
27	Providing and casting in situ Controlled Cement Concrete M-30 for C.C. Raft and cut-off walls including necessary shuttering laying, vibrating ramming of curing complete.	890.00	One Cum	4,855.85	43,21,704.45
28	Providing and casting in situ Contolled Cement concrete M 30 mix for R.C.C. works in pier cap, abutment cap, and dirt wall including controlled cement concrete M 35 bed block or pedestals for required size below bearings as per detailed drawings, centering, shuttering, scaffolding wherever necessary laying, vibrating, curing and finishing complete.	75.00	One Cum	5,542.86	4,15,714.49
29	Providing and casting in situ Controlled cement concrete M 25 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	190.90	One Cum	5,256.06	10,03,381.85
30	Providing and casting in situ Controlled cement concrete M 30 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	540.00	One Cum	5,890.42	31,80,827.34
31	Providing and casting in situ Contolled cement concrete- M-20 for average 75/150mm thick wearing coat laid as directed including. tamping, vibrating, finishing, curring and filling in joints with bitumen complete.	19.80	One Cum	5,271.78	1,04,381.24
32	Providing and casting in situ Contolled cement concrete- M-30 for average 75mm thick wearing coat laid as directed including. tamping, vibrating, finishing, curring and filling in joints with bitumen complete.	44.80	One Cum	5,536.10	2,48,017.41

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
33	Providing and casting in situ Controlled cement concrete- M-20 mix for kerbs/Kerb blocks including formwork,curing and finishing complete.	12.30	One Cum	4,842.86	59,567.18
34	Providing and casting in situ Controlled cement concrete- M-30 mix for kerbs/Kerb blocks including formwork,curing and finishing complete.	60.00	One Cum	5,107.19	3,06,431.40
35	Providing and casting in situ Contolled cement concrete- M-25 mix for Approach slab including formwork, curing and finishing complete.	63.20	One Cum	5,235.67	3,30,894.34
36	Providing and casting in situ Contolled cement concrete- M-30 mix for Approach slab including formwork, curing and finishing complete.	40.00	One Cum	5,394.27	2,15,770.74
37	Providing and laying weep hole in Abutment and returns by using A.C pipe of 100mm. Incl. fixing in proper grade and jointing the complete as per detailed specification.	987.00	One No	86.69	85,565.38
38	Providing and laying filter media 600mm. thick directed at the back of abutments, returns and wing walls as per detailed specifications.	498.80	One Sqm	1,239.35	6,18,188.00
39	Providing and filling sand behind abutments and between riding return, square return in layers as directed.	1780.00	One Cum	504.42	8,97,875.25
40	Providing and fixing in position Mild steel dowel bars in pier cap or abutment caps for anchorage in free end as per detailed drawings including cutting bending and welding complete.	60.00	One No	450.07	27,003.97
41	Providing and laying in Position FE - 500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Piers (B) Abutments (C) Returns (D) Walls etc.	16.750	One MT	73,858.69	12,37,133.10
42	Providing and laying in Position FE - 500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Pier cap (B) Abutment cap & Dirt walls.	7.50	One MT	73,858.69	5,53,940.21
43	Providing and laying in Position FE - 500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Solid slab	49.00	One MT	73,243.02	35,88,907.90

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
44	Providing and Fixing in position FE-500/500D TMT bar reinforcement including cutting, bending, hooking, and tying complete as per detailed drawaing (A)RCC kerb (B) RCC Footpath (B) RCC Solid Slab/ App. Slab / Wearing coat.	70.100	One MT	73,243.01	51,34,335.11
45	Providing 12mm. Thick Pre-moulded asphalt filler joints as per drawings	82.80	One Sqm	703.52	58,251.79
46	Providing G.I. 100mm. Diameter water spouts including necessary iron gratings as per drawings.	80.00	One No	536.02	42,881.77
47	Providing flood gauge marks on sub structure as per design including painting complete	44.50	One Rmt.	167.03	7,432.88
48	Painting Two Coats on New Concrete Surfaces (Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces) - For inner face of Kerb / Crash Barrier	199.00	One Sqm	81.81	16,280.19
49	Filling available excavated earth (excluding rock ) in trenches plinth sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering.	427.10	One Cum	136.91	58,474.26
50	Supplying and fixing reinforced concrete heavy duty non presure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope) of I.S. Class NP-3 of following internal diameter with all lead and lift. (i) 900mm Dia.	110.00	One Rmt.	3,596.93	3,95,662.80
51	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. Stone/Rubble masonary.	194.40	One Cum	409.22	79,552.37
52	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. RCC Work.	404.10	One Cum	930.35	3,75,954.44
53	Dismantling G.I. Pipes G.S.W. Pipes and A.C Rain water pipes with fitting and clamps including stacking the materials with all lead and lift (for any of pipe)	82.50	One Rmt.	76.67	6,325.28
54	Removing all type of hume pipes and stacking including all lead of earthwork and dismantling of masonry works. (A) Up to 600 mm dia	34.00	One Rmt	183.16	6,227.56

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
55	Dismantling the existing structure including removing and stacking the dismantelled materials as and where directed. (A) CC Work	39.50	One Cum	630.24	24,894.48
56	Dismantling of Flexible Pavements (Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately) ii) By Mechanical means. A) Bituminous course	33.00	One Cum	403.75	13,323.67
57	Dismantling of Cement Concrete Pavement (Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately).	87.00	One Cum	744.37	64,760.19
58	Providing temporary all weather and fair weather diversion suitable for traffic during the construction period of the bridge / Slab drain including providing necessary drains and all safety measures including red lamps / signals at night for traffic etc. complete..	424.00	One Rmt.	3,152.47	13,36,646.08
59	Providing and fixing Flood guage post mark of 'C' angle size 100mm x 50mm x 6mm thick (in head wall 0.500mt. And 1.50mt. Out side with painting and lettering with redeum color as directed.	2.00	One No	1,140.29	2,280.58

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
60	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 60 cms Dia Circle as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2.00	One No	4,618.73	9,237.46
61	Distance Informatory / Destination Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x120 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr long (2 Nos.) stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2.00	One No	20,918.11	41,836.22

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
62	<p>Diversion Ahead Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x60 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.1 mtr long stand post (2 Nos.) of 50 x 50 x 5mm / 50NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer &amp; a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting</p>	2.00	One No	10,671.66	21,343.32
63	<p>Men at work (2' x 2') sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP(Aluminum composite Panel); size 60cm x 60cm square as per design of IRC-67-2012. Pre treated with phospheting process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer &amp; a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting</p>	2.00	One No	4,962.13	9,924.26

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
64	Sign board per Squate Meter :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 1meter x1 meter as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 4 mtr long stand post (2 Nos.) of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	5.00	One No	12,310.89	61,554.45
65	Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2.00	One No	5,077.27	10,154.54

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
66	Chevron sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50 cm as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from originaa manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	10.00	One No	4,681.35	46,813.50
67	Hazard Marker Sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 1.8mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2.00	One No	3,666.30	7,332.60



Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
68	Hazard Marker Sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting	8.00	One No	3,518.68	28,149.44
69	Cautionary Warning Sign : Providing and fixing sign boards made out of 2mm Aluminium sheet size 90x90x90 cms. Equilateral treangle as per the design of IRC-67-1977 pre treated with phospheting process and acid etching coated with one coat of apoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest MOST specification 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35x35x3mm, 75x75x6mm. as required painted with best quality epoxy coating in black and white bends the details of symbole for each board shall be as per the instruction of Engineer in charge the fixing at site shall be in 1:2:4 CC block of size 45x45x60cms. for each leg including excavation curring etc. complete under the supervision of engineer in charge (A) Engineering Grade.	2.00	One No	3,808.65	7,617.30

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
70	<p>MMGSY Project Information Board: Providing and fixing of typical PMGSY Project informatory sign board with Logo as per 1700 of MORD specifications and drawing. The board will be a composite unit consisting of Three Plates ACM (Aluminum Composite Material), material specifications as per clause 1700.1.3. The top most plate will be of 3mm ACM in diamond shape of 600x600mm size, riveted with MS angle iron frame of 25mmx25mmx5mm size on back on edges. The middle 4mm ACM plate of will be 1200x150mm size riveted with MS angle iron frame of 25mmx25mmx5mm size on back on edges. The main 4mm ACM lower most plate will be 1500mmx600mm size, riveted with MS angle iron frame of 25mmx25mmx5mm size. Riveting of all the sheets over angle and flat iron frame will be done neatly to have plain surface on one side. The angle iron frame of lower most plate and flat iron frame of the middle plate will be welded to two nos. 75mm x75mm (12 SWG) sheet tubes posts placed at 1125mm apart centre to centre. the top of the middle plate will be flushed with the top of 75mm dia medium steel tube posts and these posts will be embedded in cement concrete M15 grade block of 450x450x600mm below ground level. The height of the bottom of the lower plate will be 1200mm from normal ground level and the bottom of the middle plate will be 100mm above the top level of the lower most plate. the diamond shaped plate mounted over flat angle iron frame will be connected to middle plate by square steel section of 47mmx47mm, thickness 12SWG having a spacing of 100mm between the diamond shaped plate and middle plate and this square section will be riveted to the bottom point of the diamond shaped plate. MMGSY logo, letters and numerals on the ACM should be made up of Retro Reflective sheeting of Type-1 AEGP Class-A grade as per the latest MORD section 1700 and IRC 67-2012 specifications. All the section of the frame and posts shall be painted with primer and two coats of epoxy paint. The design, painting and lettering shall be done as per the MMGSY Signage Guide and as directed by Engineer-In-charge. . A warranty for 5 years for the Retro reflective sheeting for Class-A respectively, from original manufacturer shall be submitted by contractor.</p>	2.00	One No	11,529.15	23,058.30

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
71	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of 2.5mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta /bump patta lane/center line/ edge line/cut patta. The white color marking should provide liminance coefficinet on cemend road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	92.00	One sqm	367.72	33,830.31
72	Cat Eye / Road Stud / RPM: Supplying of Molded Twin Shanks Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 20 mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and The color of the marker should be as per the IRC 35-2015 and as directed by Engineer in-charge.	74.00	One No	326.23	24,141.02

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
73	Providing and applying anti carbonation, anti fading, mold resistant, heat insulating, and 100% acrylic breathable decorative external waterproof coating of approved shade for Pier/Abutment, Riding return, Square return, Protection wall, Pier / Abutment Cap, Dirt wall, Solid slab etc. having Viscosity @ Room Temperature by Ford cup No. B-4 (dilute 2 parts of product with 1 part of water) 18 to 30 sec. pH of 7.00 to 10.00 and Sp. Gravity @ Room Temperature 1.30+0.1, tested for carbon dioxide diffusion resistance properties for coating materials and coating systems for exterior masonry and concrete as per DIN EN 1062-6 (2002-2010) by a NBA Grade "A" accredited institution.	1325.00	One sqm	120.99	1,60,316.91
74	Carrying out load test of super structure as directed including all necessary materials plant equipement, instruments, labour and arrangements for test directed.	200.00	One MT	169.92	33,984.48
75	Type - B, "THRIE" : Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 811)	284.00	One Rmt	4,145.04	11,77,191.36
76	Providing and fixing guard stone as per I.R.C. type design including white washing etc. complete	236.00	One No	103.56	24,439.05
77	Scarifying bitumen macadam surface 6 cm to 10 cm.depth including stacking useful materials on road side and disposing off remaining stuff (A) On Existing Road	327.00	One Cum	41.60	13,603.20

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
78	Construction of Subgrade with approved material obtained from borrow pits with all lifts and leads, transporting to site spreading, grading to required slope and compacting to meet requirement to MoRTH table 300-2 in layers not more than 200 mm thick as directed by engineer in charge.(Effective CBR Minimum 8 % )	177.00	One Cum	357.01	63,190.77
79	Construction of granular sub-base (Grade - 1) by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MoRTH clause 401.	239.00	One Cum	1,225.83	2,92,973.37
80	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam (in two layers) specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density, complete as per MoRTH clause 406.	296.90	One Cum	1,837.98	5,45,696.26
81	Providing and applying Prime coat with Slow Setting Bitumen Emulsion binder (SS-1) @ rate of 7.5 Kg./10 sq.m. of road surface using Emulsion pressure sprayer etc.,cleaning the road surface complete including cost of material labour etc complete as directed by engineer in charge.	1336.50	One Sqm	58.40	78,051.60
82	Providing and applying tack coat with Rapid Setting Bitumen Emulsion binder (RS- 1) @ rate of 2.5 Kg./10 sq.m. of road surface using Emulsion pressure sprayer etc., cleaning the road surface complete including cost of material labour etc complete as directed by engineer in charge.	1337.00	One Sqm	24.14	32,275.18

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
83	Providing and laying 25 mm thick (Compacted ) Semi -dence Bituminous concrete on exiting bituminous surface and using specified graded black trapped machine crushed aggregate with 5% Bitumen Vg-30 - 60/70 grade bitumen by Wt of total mix as per MORTH specification including heating and mixing of asphalt with B.T. chips in continuous batch mix plant and transporting same at site and speading by sensor paver finisher and consolidation the same with pair of 8 tonnes to 10 tonnes vibratory roller to achive desire density and including flusing the stone dust @0.03 cum/10smt including cost of required tools , plants, all machineries, equipment fire wood , oil, kerosene, charges etc. complete.	33.80	One MT	3,471.53	1,17,337.71
84	Providing and laying compacted Bituminous concrete using BT aggregate as per MORTH gradation ,specification and asphalt Grade VG 30 mixing @54.00 Kg /MT of total Wt. of mix i.e. (5.40% of total weight mix) including heating and mixing aggregate & asphalt by batch mix plant spreading the same by sensor paver finisher including rolling & consolidation with 10-12 tonne vibratory roller,Tandem Roller ,PTR & providing all materials equipment's tools & plants, fire wood, oil , kerossene,labour charges , using contractor 's own machinery etc. Complete as directed by engineer in charge as per MoRTH Specification	70.50	One MT	3,666.64	2,58,498.12
85	Providing and laying 20 mm thick mix seal surfacing using spcified graded crushed Black Trap stone aggregates as per MORTH gradation using VG-30 bulk bitumen for mixing at the rate of 5.1 % (51.00 Kg./M.T.) by hot mix process and hot laid process using paver finisher to the required camber and grade, including rolling with vibratory roller to achive desier density including cost of fier wood, oil, Kerosene, labour charges and hier charges of machinaries etc. complete.	33.00	One MT	3,578.50	1,18,090.50

Item No.	Item Description	Quantity	Unit	Rate in Figure	Total Amount (in Rs.)
86	Providing and erecting a "W" metal crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70cm above Road/Ground level, fixed on ISMC series channel vertical post, 150x75x5mm spaced 2m center to center, 1.8m high, 1.1m below ground/road level, all steel parts and fittings to be galvanized by hot dip process, all fittings to conform to IS:1367 and IS:1364 metal beam rail to be fixed on the vertical post with a spacer of channel section 150x75x5mm, 330mm long complete as per clause 810.	284.00	One Rmt.	3,723.46	10,57,462.64
Total Rs.					5,12,05,214.31

I \ We am \ are willing to carry out the work at ..... % above \ below percent ( Should be written in figures and words ) of the estimated rate mentioned above. Amount of My \ Our tender works put as under.

\* Estimated Amount

Put to tender Rs.....

Deduct.....%

Net Rs.....

In words.....

\* Estimated Amount

Put to tender Rs.....

Add.....%

Total Rs.....

In words.....

1.The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.

2.The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.

3.GST and Income tax TDS will be deducted at a source while making payments of bills

4.In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in

S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost

of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

*\* (Please strike out whichever is not applicable)*

Note: Credit Value of Dismantle material & Credit value of Diversion work Rs. 13,79,885.21 shall be recovered from 1<sup>st</sup> RA Bill of Contractor. (RA-1 & RA-2)

First-2

Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division

Signature of Contractor.

Deputy Executive Engineer  
Panchayat R&B Sub Division

Executive Engineer  
Panchayat R&B Division  
Devbhumi Dwarka

**NAME OF WORK: RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**BRIDGE QUANTITY MERGING SUMMARY**

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle.	0.00	0.50 0.24 0.00 0.00 0.00 0.00 <b>0.00</b>	14227.55 6829.22 0.00 0.00 0.00 <b>21056.77</b>	0.74	28,455.09 Hect.	21,056.77
2	Demarcation of road alignment including marking out road line by providing and fixing wooden pegs or steel rod of required size at every 25 M to 50 M. including excavating trenches on both sides of 0.30 m. x 0.30M. including supplying of labours and all materials for every work etc complete.	0.00	0.15	392.44 0.00 0.00 0.00 0.00 0.00 <b>392.44</b>	0.15	2,706.50 Km.	392.44
3	Portable Barricade in Construction Zone (Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 450, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP.55-2001 )	0.00	20.00	60701.00 0.00 0.00 0.00 0.00 <b>60701.00</b>	20.00	3,035.05 One No.	60,701.00

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Sr No	Item Description	Construction of Box Culvert at various chaingges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
4	Diversion of water course, providing cofferdam and bund or island as may be necessary for foundation and maintaining the same for the period as may be necessary.	0.00	0.00	5.00	250000.00	5.00	50,000.00	One No.	2,50,000.00
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	5.00	250000.00				
5	Earthwork for embankment including breaking clods, dressing with all lead and lift (Excluding watering and consolidation) (A) Selected soil should be From borrow area with all lead and lift and should have CBR not less than 6.00%.	1691.90	276947.11	0.00	0.00	5260.10	163.62	One Cum	8,60,660.47
		1329.90	217691.33		0.00				
		1342.30	219721.09		0.00				
		832.80	136321.03		0.00				
		63.20	9979.91		0.00				
		5260.10	860660.47	0.00	0.00				
6	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T.(E) From Borrow area including all lead & lift	0.00	0.00	275.50	49014.21	2475.00	177.91	One Cum	4,40,327.25
			0.00	2199.50	391313.05				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	2475.00	440327.25				

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
7	<b>WBM Grading-2</b> Providing, laying, spreading and compacting stone agg. Of 63mm to 45mm size to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stage to proper grade and camber, applying and brooming, stone screening/binding material to fill-up the intersties of coarse agg., watering and compacting to the required density grading-2 as per Technical Specification Clause.405 By manual means.	45.60	96316.78	0.00	0.00	195.60	2,105.57	One Cum	4,11,850.39
		38.90	82164.97		0.00				
		56.90	120184.75		0.00				
		34.40	72660.02		0.00				
		19.80	40523.87		0.00				
		<b>195.60</b>	<b>411850.39</b>	<b>0.00</b>	<b>0.00</b>				
8	<b>Rolling and Watering</b> of earthwork with vibratory roller including filling in depression which occur during the process and as directed.	1534.90	35225.96	0.00	0.00	4957.20	22.95	One Cum	1,13,767.74
		1251.10	28712.75		0.00				
		1289.90	29603.21		0.00				
		789.40	18116.73		0.00				
		91.90	2109.11		0.00				
		<b>4957.20</b>	<b>113767.74</b>	<b>0.00</b>	<b>0.00</b>				
9	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. (B) Dense or hard soil.	59.50	15105.86	0.00	0.00	59.50	253.88	One Cum	15,105.86
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		<b>59.50</b>	<b>15105.86</b>	<b>0.00</b>	<b>0.00</b>				
10	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. (C) Hard Murrum	36.00	15573.96	0.00	0.00	36.00	432.61	One Cum	15,573.96
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		<b>36.00</b>	<b>15573.96</b>	<b>0.00</b>	<b>0.00</b>				

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
11	Excavation of foundation in Sand gravel caly soft soil and murrum etc. including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed. Depth upto 3.00mt.	742.40	379448.06	580.00	296444.09	2565.10	511.11	One Cum	13,11,048.58
		579.80	296341.58	60.30	30819.96				
		328.30	167797.41		0.00				
		274.30	140197.47		0.00				
			0.00		0.00				
		1924.80	983794.53	640.30	327264.05				
12	Excavation of foundation in hard murrum and boulders and very stiff or sticky clays and other similar strata including shorting out and strutting and dewatering as necessary and disposing of the excavated stuff as directed.	314.00	191954.48	0.00	0.00	896.00	611.32	One Cum	5,47,742.72
		262.60	160532.63		0.00				
		174.70	106797.60		0.00				
		144.70	88458.00		0.00				
			0.00		0.00				
		896.00	547742.72	0.00	0.00				
13	Excavation in large boulders and soft rock by wedging including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed,	0.00	0.00	500.00	358277.30	500.00	716.55	One Cum	3,58,277.30
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	500.00	358277.30				
14	Excavation in hard rock by dry-wet blasting and chiseling including dewatering preparing foundation base by proper benching and stepping and disposing of the excavated stuff as directed (B) Blasting prohibited.	0.00	0.00	585.00	980054.71	585.00	1,675.31	One Cum	9,80,054.71
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	585.00	980054.71				
15	Providing and fixing Mild steel dowel bar of minimum 32mm dia. For anchoring by drilling holes in foundation strata including necessary bending, hooking of dowel bars and grouting the holes complete as per detailed drawing and as directed.	0.00	0.00	155.00	69760.25	155.00	450.07	One Rmt	69,760.25
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	155.00	69760.25				

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Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur				Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka				Total Qty	Rate	Unit	Amount
16	Providing and laying rubble for apron (Each stone weighting not less than 40kg) including and packing and filling in the interstices with quarry spall.	130.70	141653.97			0.00	0.00			288.10	1,083.81	One Cum	3,12,245.66
		94.20	102094.90				0.00						
		31.60	34248.40				0.00						
		31.60	34248.40				0.00						
			0.00				0.00						
17	Providing and filling in foundation with ordinary cement concrete M-15 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	288.10	312245.66			0.00	0.00						
		165.20	613820.42			0.00	0.00			501.90	3,715.62	One Cum	18,64,869.68
		152.30	565888.93				0.00						
		107.80	400543.84				0.00						
		76.60	284616.49				0.00						
18	Providing and casting in situ ordinary cement concrete M-15 mix and providing necessary pin headers including shuttering, scaffolding, laying, vibrating, curing and finishing complete Without V-Grooves For all Hieght.	501.90	1864869.68			0.00	0.00						
		110.20	432163.63			0.00	0.00			110.20	3,921.63	One Cum	4,32,163.63
		0.00	0.00				0.00						
		0.00	0.00				0.00						
			0.00				0.00						
19	Providing and filling in foundation with ordinary cement concrete M-10 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	110.20	432163.63			0.00	0.00						
		26.60	88992.43			0.00	0.00			26.60	3,345.58	One Cum	88,992.43
			0.00				0.00						
			0.00				0.00						
			0.00				0.00						
20	Providing and filling in foundation with ordinary cement concrete M-15 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	26.60	88992.43			0.00	0.00						
		0.00	0.00			110.00	408719.12			171.20	3,715.63	One Cum	6,36,115.58
			0.00			61.20	227396.46						
			0.00				0.00						
			0.00				0.00						
		0.00	0.00			171.20	636115.58						

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
21	Providing & laying 22.5 cm thick dry rubble stone pitching on side slope on existing earthwork on murrum bed 7.50 cm thick & filling interstic with murrum & providing Flush pointing in CM 1:3 etc complete including curing & preparing slope in Earth work as directed.	0.00	0.00	324.00	257865.12	324.00	795.88	One Sqm	2,57,865.12
		0.00	0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	324.00	257865.12				
22	Providing parapet of ordinary cement concrete M-20 as per detailed drawing with necessary reinforcement including shuttering laying vibrating and finishing to line and level complete (ii) cast in situ.	55.90	60493.86	0.00	0.00	154.60	1,082.18	One Rmt.	1,67,305.03
		42.30	45776.21		0.00				
		28.20	30517.48		0.00				
		28.20	30517.48		0.00				
			0.00		0.00				
		154.60	167305.03	0.00	0.00				
23	Providing and casting in situ Controlled cement concrete M-20 for R.C.C. work in Piers, abutment, returns and riding returs as per drawing including centering, shuttering, scaffolding where necessary laying, vibrating curing and finishing complete (A) For all Height	549.50	2856619.71	0.00	0.00	1493.10	5,198.58	One Cum	77,61,999.80
		430.40	2237468.83		0.00				
		296.70	1542418.69		0.00				
		216.50	1125492.57		0.00				
			0.00		0.00				
		1493.10	7761999.80	0.00	0.00				
24	Providing and casting in situ Controlled cement concrete M-30 for C.C. work in Piers, abutment, returns and riding returs as per drawing including centering, shuttering, scaffolding where necessary laying, vibrating curing and finishing complete (A) For all Height	0.00	0.00	545.00	2977279.46	545.00	5,462.90	One Cum	29,77,279.46
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	545.00	2977279.46				

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Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
25	Providing and casting in situ Ordinary cement concrete M-20 for C.C. Toe Wall and Curtain walls including necessary shuttering laying, vibrating, ramming and curing complete.	0.00	0.00	40.00	165688.88	40.00	4,142.22	One Cum	1,65,688.88
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
26	Providing and casting in situ Controlled Cement Concrete M-25 for R.C.C. Raft and cut-off walls including necessary shuttering laying, vibrating ramming of curing complete.	0.00	0.00	40.00	165688.88				
		182.50	857248.13	0.00	0.00	418.90	4,697.25	One Cum	19,67,678.03
		128.00	601248.00		0.00				
		54.20	254590.95		0.00				
27	Providing and casting in situ Controlled Cement Concrete M-30 for C.C. Raft and cut-off walls including necessary shuttering laying, vibrating ramming of curing complete.	54.20	254590.95		0.00				
		418.90	1967678.03	0.00	0.00	890.00	4,855.85	One Cum	43,21,704.45
		0.00	0.00	890.00	4321704.45	890.00			
			0.00		0.00				
28	Providing and casting in situ Contolled Cement concrete M 30 mix for R.C.C. works in pier cap, abutment cap, and dirt wall including controlled cement concrete M 35 bed block or pedestals for required size below bearings as per detailed drawings, centering, shuttering, scaffolding wherever necessary laying, vibrating, curing and finishing complete.	0.00	0.00	890.00	4321704.45				
		0.00	0.00	75.00	415714.49	75.00	5,542.86	One Cum	4,15,714.49
			0.00		0.00				
			0.00		0.00				

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
29	Providing and casting in situ Controlled cement concrete M 25 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	79.50 417856.77 54.40 285929.66 28.50 149797.71 28.50 149797.71 0.00 0.00 190.90 1003381.85	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	190.90	5,256.06	One Cum	10,03,381.85
30	Providing and casting in situ Controlled cement concrete M 30 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	540.00 3180827.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	540.00	5,890.42	One Cum	31,80,827.34
31	Providing and casting in situ Controlled cement concrete- M-20 for average 75/150mm thick wearing coat laid as directed including. tamping, vibrating, finishing, curing and filling in joints with bitumen complete.	0.00 0.00 19.80 104381.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 19.80 104381.24	540.00 3180827.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	19.80	5,271.78	One Cum	1,04,381.24
32	Providing and casting in situ Controlled cement concrete- M-30 for average 75mm thick wearing coat laid as directed including. tamping, vibrating, finishing, curing and filling in joints with bitumen complete.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	44.80 248017.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	44.80	5,536.10	One Cum	2,48,017.41
33	Providing and casting in situ Controlled cement concrete- M-20 mix for kerbs/Kerb blocks including formwork,curing and finishing complete.	0.00 0.00 5.20 25182.87 3.50 16950.01 1.80 8717.15 1.80 8717.15 0.00 0.00 12.30 59567.18	44.80 248017.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	12.30	4,842.86	One Cum	59,567.18

Sr No	Item Description	Construction of Box Culvert at various changes on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road, Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
34	Providing and casting in situ Controlled cement concrete- M-30 mix for kerbs/Kerb blocks including formwork,curing and finishing complete.	0.00  0.00 0.00 0.00 0.00 0.00  0.00	60.00  0.00  0.00  0.00  306431.40	60.00	5,107.19	One Cum	3,06,431.40
35	Providing and casting in situ Contolled cement concrete- M-25 mix for Approach slab including formwork, curing and finishing complete.	15.80 15.80 15.80 15.80  63.20	82723.59 82723.59 82723.59 82723.59 0.00 330894.34	63.20	5,235.67	One Cum	3,30,894.34
36	Providing and casting in situ Contolled cement concrete- M-30 mix for Approach slab including formwork, curing and finishing complete.	0.00  0.00 0.00 0.00 0.00  0.00	40.00  0.00  0.00  0.00  215770.74	40.00	5,394.27	One Cum	2,15,770.74
37	Providing and laying weep hole in Abutment and returns by using A.C pipe of 100mm. Incl. fixing in proper grade and jointing the complete as per detailed specification.	235.00 185.00 176.00 111.00  707.00	0.00 20372.15 16037.65 15257.44 9622.59 0.00 61289.83	987.00	86.69	One No	85,565.38
38	Providing and laying filter media 600mm. thick directed at the back of abutments, returns and wing walls as per detailed specifications.	54.70 54.70 54.70 54.70  218.80	67792.45 67792.45 67792.45 67792.45 0.00 271169.78	498.80	1,239.35	One Sqm	6,18,188.00



Sr No	Item Description	Construction of Box Culvert at various chainghes on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
39	Providing and filling sand behind abutments and between riding return, square return in layers as directed.	0.00	0.00	1780.00	897875.25	1780.00	504.42	One Cum	8,97,875.25
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	1780.00	897875.25				
40	Providing and fixing in position Mild steel dowel bars in pier cap or abutment caps for anchorage in free end as per detailed drawings including cutting bending and welding complete.	0.00	0.00	60.00	27003.97	60.00	450.07	One No	27,003.97
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	60.00	27003.97				
41	Providing and laying in Position FE -500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Piers (B) Abutments (C) Returns (D) Walls etc.	2.20	162489.12	9.50	701657.59	16.75	73,858.69	One MT	12,37,133.10
		1.79	132207.06		0.00				
		1.63	120389.66		0.00				
		1.10	81244.56		0.00				
		0.53	39145.11		0.00				
		7.25	535475.50	9.50	701657.59				
42	Providing and laying in Position FE -500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Pier cap (B) Abutment cap & Dirt walls.	0.00	0.00	7.50	553940.21	7.50	73,858.69	One MT	5,53,940.21
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	7.50	553940.21				
43	Providing and laying in Position FE -500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Solid slab	0.00	0.00	49.00	3588907.90	49.00	73,243.02	One MT	35,88,907.90
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	49.00	3588907.90				

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44	Providing and Fixing in position FE-500/500D TMT bar reinforcement including cutting, bending, hooking, and tying complete as per detailed drawaing (A)RCC kerb (B) RCC Footpath (B) RCC Solid Slab/ App. Slab / Wearing coat.	24.04	1760761.96	12.40	908213.43	70.10	73,243.01	One MT	51,34,335.11
		17.41	1275160.80		0.00				
		7.74	566900.90		0.00				
		7.74	566900.90		0.00				
		0.77	56397.12		0.00				
45	Providing 12mm. Thick Pre-moulded asphalt filler joints as per drawings	57.70	4226121.68	12.40	908213.43	82.80	703.52	One Sqm	58,251.79
		8.70	6120.62	60.50	42563.30				
		6.20	4361.82		0.00				
		3.70	2603.02		0.00				
		3.70	2603.02		0.00				
46	Providing G.I. 100mm. Diameter water spouts including necessary iron gratings as per drawings.	22.30	15688.50	60.50	42563.30	80.00	536.02	One No	42,881.77
		24.00	12864.48	24.00	12864.65				
		16.00	8576.32		0.00				
		8.00	4288.16		0.00				
		8.00	4288.16		0.00				
47	Providing flood gauge marks on sub structure as per design including painting complete	56.00	30017.12	24.00	12864.65	44.50	167.03	One Rmt.	7,432.88
		12.00	2004.36	11.50	1920.89				
		9.00	1503.27		0.00				
		6.00	1002.18		0.00				
		6.00	1002.18		0.00				
48	Painting Two Coats on New Concrete Surfaces (Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces) - For inner face of Kerb / Crash Barrier	33.00	5511.99	11.50	1920.89	199.00	81.81	One Sqm	16,280.19
		0.00	0.00	199.00	16280.19				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	199.00	16280.19				

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49	Filling available excavated earth (excluding rock ) in trenches plinth sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering.	157.00	21494.87	0.00	0.00	427.10	136.91	One Cum	58,474.26
		78.80	10788.51		0.00				
		52.40	7174.08		0.00				
		43.40	5941.89		0.00				
		95.50	13074.91		0.00				
		<b>427.10</b>	<b>58474.26</b>	<b>0.00</b>	<b>0.00</b>				
50	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope) of I.S. Class NP-3 of following internal diameter with all lead and lift (i) 900mm Dia.	30.00	118122.00	80.00	277540.80	110.00	3,596.93	One Rmt.	3,95,662.80
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		<b>30.00</b>	<b>118122.00</b>	<b>80.00</b>	<b>277540.80</b>				
51	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. Stone/Rubble masonry.	194.40	79552.37	0.00	0.00	194.40	409.22	One Cum	79,552.37
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		<b>194.40</b>	<b>79552.37</b>	<b>0.00</b>	<b>0.00</b>				
52	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. RCC Work.	108.30	100756.91	0.00	0.00	404.10	930.35	One Cum	3,75,954.44
		214.50	199560.08		0.00				
		53.40	49680.69		0.00				
		27.90	25956.77		0.00				
		<b>404.10</b>	<b>375954.44</b>	<b>0.00</b>	<b>0.00</b>				

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53	Dismantling G.I. Pipes G.S.W. Pipes and A.C Rain water pipes with fitting and clamps including stacking the materials with all lead and lift (for any of pipe)	45.00	3450.15	0.00	0.00	82.50	76.67	One Rmt.	6,325.28
		22.50	1725.08		0.00				
		15.00	1150.05		0.00				
			0.00		0.00				
			0.00		0.00				
		82.50	6325.28	0.00	0.00				
54	Removing all type of hume pipes and stacking including all lead of earthwork and dismantling of masonry works. (A) Up to 600 mm dia	0.00	0.00	34.00	6227.56	34.00	183.16	One Rmt	6,227.56
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	34.00	6227.56				
55	Dismantling the existing structure including removing and stacking the dismantelled materials as and where directed. (A) CC Work	0.00	0.00	39.50	24894.48	39.50	630.24	One Cum	24,894.48
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	39.50	24894.48				
56	Dismantling of Flexible Pavements (Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately) ii) By Mechanical means. A) Bituminous course	0.00	0.00	33.00	13323.67	33.00	403.75	One Cum	13,323.67
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	33.00	13323.67				

31

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
57	Dismantling of Cement Concrete Pavement (Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately).	0.00	0.00	87.00	64760.19	87.00	744.37	One Cum	64,760.19
			0.00		0.00				
			0.00		0.00				
58	Providing temporary all weather and fair weather diversion suitable for traffic during the construction period of the bridge / Slab drain including providing necessary drains and all safety measures including red lamps / signals at night for traffic etc. complete..	0.00	0.00	87.00	64760.19				
		102.00	338626.74	0.00	0.00	424.00	3,152.47	One Rmt.	13,36,646.08
		70.00	232390.90		0.00				
		142.00	471421.54		0.00				
		70.00	232390.90		0.00				
59	Providing and fixing Flood guage post mark of 'C' angle size 100mm x 50mm x 6mm thick (in head wall 0.500mt. And 1.50mt. Out side with painting and lettering with redeum color as directed.	40.00	61816.00		0.00				
		424.00	1336646.08	0.00	0.00	2.00	1,140.29	One No	2,280.58
		2.00	2280.58	0.00	0.00				
		2.00	2280.58	0.00	0.00				

Sr No	Item Description	Construction of Box Culvert at various chaingges on Ran Mevasa Virpur Aasofa Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
60	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminium composite Panel); size 60 cms Dia Circle as per design of IRC-67-2012. Pre treated with phospheting process & acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with besquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.Including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00	0.00	2.00	9237.46	2.00	4,618.73	One	9,237.46
		0.00	0.00		0.00			No	
		0.00	0.00	2.00	9237.46				

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta. Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
61	Distance Informatory / Destination Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminium composite Panel); size 180x120 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.C.S.T. Specifications; 4.0mtr long (2 Nos.) stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol for each board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00	0.00	2.00	41836.22	2.00	20,918.11	One	41,836.22
			0.00		0.00			No	
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	2.00	41836.22				

Sr No	Item Description	Construction of Box Culvert at various chaingages on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Sheddhak Road. Taluka-Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
62	Diversion Ahead Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x60 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorisied with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.1 mtr long stand post (2 Nos.) of 50 x 50 x 5mm / 50NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00  0.00 0.00 0.00 0.00	0.00  0.00 0.00 0.00 0.00	2.00	21343.32	One	21,343.32
		0.00	2.00	2.00	10,671.66	No	
		0.00	2.00	2.00	21343.32		



Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka-Bhanvad District-Taluka-Bhanvad Dwarka	Total Qty	Rate	Unit	Amount
63	Men at work (2' x 2') sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP(Aluminium composite Panel); size 60cm x 60cm square as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends, the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00 0.00 0.00 0.00 0.00 <b>0.00</b>	2.00 0.00 0.00 0.00 0.00 <b>2.00</b>	2.00	4,962.13	One No	9,924.26

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road, Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
64	Sign board per Squate Meter :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 1meter x1 meter as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with Micro Prismatic Grade retro reflective sheeting of Type-II as per ASTM D-4956 and latest M.O.S.T. Specifications; 4 mtr long stand post (2 Nos.) of 75 x 75 x 6mm / 6SNB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-II Retro Reflective sheeting	0.00	0.00	5.00	61554.45	One No	61,554.45
		0.00	0.00	0.00	0.00		
		0.00	0.00	0.00	0.00		
		0.00	0.00	0.00	0.00		
		0.00	0.00	0.00	0.00		
		0.00	0.00	5.00	61554.45		
		0.00	0.00				

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
65	Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminum sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflective sheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 6SNB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2.4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00	0.00	2.00	10154.54	2.00	5,077.27	One	10,154.54
			0.00		0.00			No	
		0.00	0.00	2.00	10154.54				

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road, Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
66	Chevron sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50 cm as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge.The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from originaa manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00	0.00	10.00	46813.50	10.00	4,681.35	One No	46,813.50
		0.00	0.00		0.00				
		0.00	0.00	10.00	46813.50				

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
67	Hazard Marker Sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminium composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ,reflectiorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 1.8mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	0.00	2.00	2.00	3,666.30	One No	7,332.60
		0.00	2.00	2.00			

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road, Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
68	Hazard Marker Sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP (Aluminium composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T Specifications; 1.8mtr long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:24 CC blockof size 45 x 45 x 60 Cms. for each leg including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting	2.00	7037.36	0.00	0.00	8.00	3,518.68	One	28,149.44
		2.00	7037.36		0.00			No	
		2.00	7037.36		0.00				
		2.00	7037.36		0.00				
		8.00	28149.44	0.00	0.00				
69	<u>Cautionary Warning Sign</u> : Providing and fixing sign boards made out of 2mm Aluminium sheet size 90x90x90 cms. Equilateral triangle as per the design of IRC-67-1977 pre treated with phospheting process and acid etching coated with one coat of apoxy primer and two coats of best quality epoxy paint reflectonised with retro reflective sheeting as per latest MOST specification 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35x35x3mm, 75x75x6mm. as required painted with best quality epoxy coating in black and white bends the details of symbole for each board shall be as per the instruction of Engineer in charge the fixing at site shall be in 1:24 CC block of size 45x45x60cms. for each leg including excavation curring etc. complete under the supervision of engineer in charge (A) Engineering Grade.	2.00	7617.30	0.00	0.00	2.00	3,808.65	One	7,617.30
			0.00		0.00			No	
			0.00		0.00				
			0.00		0.00				
		2.00	7617.30	0.00	0.00				

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Rate	Unit	Amount
70	MMGSY Project Information Board: Providing and fixing of typical PMGSY Project informatory sign board with Logo as per 1700 of MORD specifications and drawing. The board will be a composite unit consisting of Three Plates ACM (Aluminum Composite Material), material specifications as per clause 17001.3. The top most plate will be of 3mm ACM in diamond shape of 600x600mm size, riveted with M5 angle iron frame of 25mmx25mmx5mm size on back on edges. The middle 4mm ACM plate of will be 1200x150mm size riveted with M5 angle iron frame of 25mmx25mmx5mm size on back on edges. The main 4mm ACM lower most plate will be 1500mmx600mm size, riveted with M5 angle iron frame of 25mmx25mmx5mm size. Riveting of all the sheets over angle and flat iron frame will be done neatly to have plain surface on one side. The angle iron frame of lower most plate and flat iron frame of the middle plate will be welded to two nos. 75mm x75mm (12 SWG) sheet tubes posts placed at 1125mm apart centre to centre. the top of the middle plate will be flushed with the top of 75mm dia medium steel tube posts and these posts will be embedded in cement concrete M15 grade block of 450x450x600mm below ground level. The height of the bottom of the lower plate will be 1200mm from normal ground level and the bottom of the middle plate will be 100mm above the top level of the lower most plate. the diamond shaped plate mounted over flat angle iron frame will be connected to middle plate by square steel section of 47mmx47mm, thickness 12SWG having a spacing of 100mm between the diamond shaped plate and middle plate and this square section will be riveted to the bottom point of the diamond shaped plate. MMGSY logo, letters and numerals on the ACM should be made up of Retro Reflective sheeting of Type-1 AEGP Class-A grade as per the latest MORD section 1700 and IRC 67-2012 specifications. At the section of the frame and posts shall be painted with primer and two coats of epoxy paint. The design, painting and lettering shall be done as per the MMGSY Signage Guide and as directed by Engineer-in-charge. . A warranty for 5 years for the Retro reflective sheeting for Class-A respectively, from original manufacturer shall be submitted by contractor.	0.00	0.00	2.00	23058.30	11,529.15	One No	23,058.30
		0.00	0.00	2.00	0.00			
		0.00	0.00		0.00			
			0.00		0.00			
			0.00		0.00			
			0.00		0.00			
				2.00	23058.30			
		0.00	0.00	2.00	23058.30			

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount	
71	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorisng glass beads @ 250gms per sqm area, thickness of 2.5mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta /bump patta lane/center line/ edge line/cut patta. The white color marking should provide liminance coefficient on cement road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	0.00  0.00	0.00 0.00 0.00 0.00 0.00  92.00	18386.04 15444.27 0.00 0.00 0.00  33830.31	92.00	367.72	One sqm	33,830.31
72	Cat Eye / Road Stud / RPM: Supplying of Molded Twin Shanks Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 20 mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and The color of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	0.00  0.00	0.00 0.00 0.00 0.00 0.00  74.00	24141.02 0.00 0.00 0.00 0.00  24141.02	74.00	326.23	One No	24,141.02



Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
73	Providing and applying anti carbonation, anti fading, mold resistant, heat insulating, and 100% acrylic breathable decorative external waterproof coating of approved shade for Pier/Abutment, Riding return, Square return, Protection wall, Pier / Abutment Cap, Dirt wall, Solid slab etc. having Viscosity @ Room Temperature by Ford cup No. B-4 (dilute 2 parts of product with 1 part of water) 18 to 30 sec. pH of 7.00 to 10.00 and Sp. Gravity @ Room Temperature 1.30+0.1, tested for carbon dioxide diffusion resistance properties for coating materials and coating systems for exterior masonry and concrete as per DIN EN 1062-6 (2002-2010) by a NBA Grade "A" accredited institution.	0.00	0.00	1220.00	147728.46	1325.00	120.99	One sqm	1,60,316.91
			0.00	105.00	12588.45				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	1325.00	160316.91				
74	Carrying out load test of super structure as directed including all necessary materials plant equipment, instruments, labour and arrangements for test directed.	0.00	0.00	200.00	33984.48	200.00	169.92	One MT	33,984.48
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
			0.00		0.00				
		0.00	0.00	200.00	33984.48				

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Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
75	Type - B, "THRIE" : Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fittings to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 811)	0.00	0.00	284.00	1177191.36	284.00	4,145.04	One Rmt	11,77,191.36
		0.00	0.00		0.00				
		0.00	0.00		0.00				
76	Providing and fixing guard stone as per I.R.C. type design including white washing etc. complete	0.00	0.00	236.00	24439.05	236.00	103.56	One No	24,439.05
		0.00	0.00		0.00				
		0.00	0.00		0.00				
77	Scarifying bitumen macadam surface 6 cm to 10 cm depth including stacking useful materials on road side and disposing off remaining stuff (A) On Existing Road	0.00	0.00	327.00	13603.20	327.00	41.60	One Cum	13,603.20
		0.00	0.00		0.00				
		0.00	0.00		0.00				
		0.00	0.00	327.00	13603.20	327.00			

Sr No	Item Description	Construction of Box Culvert at various chainghes on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
78	Construction of <b>Subgrade</b> with approved material obtained from borrow pits with all lifts and leads, transporting to site spreading, grading to required slope and compacting to meet requirement to MoRTH table 300-2 in layers not more than 200 mm thick as directed by engineer in charge.(Effective CBR Minimum 8 % )	0.00	0.00	177.00	63190.77	177.00	357.01	One Cum	63,190.77
79	Construction of <b>granular sub-base (Grade - 1)</b> by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MoRTH clause 401.	0.00	0.00	89.00 150.00	109098.87 183874.50	239.00	1,225.83	One Cum	2,92,973.37
80	Providing, laying, spreading and compacting graded stone aggregate to <b>wet mix macadam (in two layers)</b> specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density, complete as per MoRTH clause 406.	0.00	0.00	147.00 149.90	270183.06 275513.20	296.90	1,837.98	One Cum	5,45,696.26
		0.00	0.00	296.90	545696.26				

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
81	Providing and applying Prime coat with Slow Setting Bitumen Emulsion binder (SS- 1) @ rate of 7.5 Kg/10 sq.m. of road surface using Emulsion pressure sprayer etc.,cleaning the road surface complete including cost of material labour etc complete as directed by engineer in charge.	0.00 0.00 0.00 0.00 0.00 0.00 0.00	587.00 749.50 0.00 0.00 0.00 0.00 78051.60	1336.50	58.40	One Sqm	78,051.60
82	Providing and applying tack coat with Rapid Setting Bitumen Emulsion binder (RS- 1) @ rate of 2.5 Kg/10 sq.m. of road surface using Emulsion pressure sprayer etc., cleaning the road surface complete including cost of material labour etc complete as directed by engineer in charge.	0.00 0.00 0.00 0.00 0.00 0.00 0.00	587.00 750.00 0.00 0.00 0.00 0.00 32275.18	1337.00	24.14	One Sqm	32,275.18
83	Providing and laying 25 mm thick (Compacted ) Semi -dence Bituminous concrete on exiting bituminous surface and using specified graded black trapped machine crushed aggregate with 5% Bitumen Vg-30 - 60/70 grade bitumen by Wt of total mix as per MORTH specification including heating and mixing of asphalt with B.T. chips in continuous batch mix plant and transporting same at site and spreading by sensor paver finisher and consolidation the same with pair of 8 tonnes to 10 tonnes vibratory roller to achive desire density and including flusing the stone dust @0.03 cum/10smt including cost of required tools , plants, all machineries, equipment fire wood , oil, kerosene, charges etc. complete.	0.00 0.00 0.00 0.00 0.00 0.00 0.00	33.80 0.00 0.00 0.00 0.00 0.00 117337.71	33.80	3471.53	One MT	1,17,337.71

Sr No	Item Description	Construction of Box Culvert at various chaingees on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur		Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka		Total Qty	Rate	Unit	Amount
84	Providing and laying compacted Bituminous concrete using BT aggregate as per MORTH gradation specification and asphalt Grade VG 30 mixing @54.00 Kg /MT of total Wt. of mix i.e. (5.40% of total weight mix) including heating and mixing aggregate & asphalt by batch mix plant spreading the same by sensor paver finisher including rolling & consolidation with 10-12 tonne vibratory roller, Tandem Roller, PTR & providing all materials equipment's tools & plants, fire wood, oil, kerosene, labour charges, using contractor's own machinery etc. Complete as directed by engineer in charge as per MORTH Specification	0.00	0.00	70.50	258498.12	70.50	3,666.64	One MT	2,58,498.12
85	Providing and laying 20 mm thick mix seal surfacing using specified graded crushed Black Trap stone aggregates as per MORTH gradation using VG-30 bulk bitumen for mixing at the rate of 5.1 % (51.00 Kg./M.T.) by hot mix process and hot laid process using paver finisher to the required camber and grade, including rolling with vibratory roller to achieve desired density including cost of fire wood, oil, Kerosene, labour charges and other charges of machineries etc. complete.	0.00	0.00	33.00	118090.50	33.00	3,578.50	One MT	1,18,090.50

48

Sr No	Item Description	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total Qty	Rate	Unit	Amount
86	Providing and erecting a "W" metal crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70cm above Road/Ground level, fixed on ISMC series channel vertical post, 150x75x5mm spaced 2m center to center, 1.8m high, 1.1m below ground/road level, all steel parts and fittings to be galvanized by hot dip process, all fittings to conform to IS:1367 and IS:1364 metal beam rail to be fixed on the vertical post with a spacer of channel section 150x75x5mm, 330mm long complete as per clause 810.	74.00 62.00 94.00 54.00 284.00	0.00 0.00 0.00 0.00 0.00	284.00	3,723.46	One Rmt.	10,57,462.64
		275536.04 230854.52 350005.24 201066.84 1057462.64	0.00 0.00 0.00 0.00 0.00				
		2,52,57,823.31	2,59,47,391.01				5,12,05,214.31

Note: Credit Value of Dismantle material & Credit value of Diversion work Rs. 13,79,885.21 shall be recovered from RA Bill of Contractor. (RA-1 & RA-2)

First-2

Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division

Deputy Executive Engineer  
Panchayat R&B Sub Division

Executive Engineer  
Panchayat R&B Division  
Devbhumi Dwarka



NAME OF WORK: RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

ERROR STATEMENT

Sr No.	Sub Estimate No.	Details	Construction of Box Culvert at various chainges on Ran Mevasa Virpur Aasota Road (MDR) Ta.Kalyanpur	Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road. Taluka- Bhanvad District- Devbhoomi Dwarka	Total
A	Not Put to AMOUNT.				
	In Recapitulation	Quality control.	2,51,528.71	2,91,135.00	5,42,663.71
		Contingency & WC	1,12,900.00	2,91,135.00	4,04,035.00
		Design Consul. Fees	-	7,64,846.19	7,64,846.19
		GST 18%	44,82,689.95	44,41,042.40	89,23,732.35
	Total		48,47,118.66	57,88,158.59	1,06,35,277.25
B	Put to Tender Amount.		2,52,57,823.31	2,59,47,391.01	5,12,05,214.31
C	Total (A+B)		3,01,04,941.97	3,17,35,549.60	6,18,40,491.57
D	Amt. of Dismantled materials / Diversion Credit as per GR (whichever is applicable) recovered from RA bill of contractor.		1,04,952.00	12,74,933.21	13,79,885.21
E	Rounding and Error.		10.03	383.61	393.65
D	Total Estimated Amount		3,00,00,000.00	3,04,61,000.00	6,04,61,000.00

Deputy Executive Engineer  
Panchayat R&B Sub Division.

Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division

J. R. BHAMBHARIA.

Bhuvan

Executive Engineer  
Panchayat R&B Division  
Devbhumi Dwarka

**Name of Work :**

**RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS  
AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT)  
UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**Statement showing cost of material labour component for  
price adjustment**

Sr. No.	Description	Amount	Amount in Lacs.
A	Total Work Amount of Bridge Work	5,12,05,214.31	512.05
1	<b>Total Work Amount Put to Tender</b>	<b>5,12,05,214.31</b>	<b>512.05</b>
2	Total Cost of Cement	1,05,27,667.60	105.28
3	Total Cost of Steel	85,17,857.00	85.18
4	Total Cost of Bitumen	2,60,720.64	2.61
5	Cost of Fuel & Lubricant (POL)	33,39,850.04	33.40
6	Cost of Material other than Cement, Steel & Asphalt	96,14,359.78	96.14
7	Cost of Labour & Machinery [1-(2+3+4+5+6+7)]	1,89,44,759.24	189.45
7(i)	Cost of Labour (Consider 70% of Sr.No8)	1,32,61,331.47	132.61
7(ii)	Cost of Plant & Machinery Spares (Consider 30 % of Sr.No8)	56,83,427.77	56.83
1	% of Labour Pl (Col-7.1/1)	25.90	
2	% of Cement Pc (Col-2/1)	20.56	
3	% of Steel Ps (Col-3/1)	16.63	
4	% of Bitumen Pb (Col-4/1)	0.51	
5	% of P.O.L. Pf (Col-5/1)	6.52	
6	% of Plant & Machinery Spares Pp (Col-7.2/1)	11.10	
7	% of Other Materials Pm (Col-6/1)	18.78	

*[Signature]*  
**Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division**

*[Signature]*  
**Dy. Exe. Engg.,  
Panchayat (R&B) Sub Division,**

*[Signature]*  
**Executive Engineer,  
Panchayat (R&B) Division,  
DevBhumi Dwarka**





**NAME OF PROJECT : RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**ASPHALT CONSUMPTION STATEMENT**

Item No. (As per Tender)	Item	Qty	Unit	Asphalt	Emulsion (Rapid/Slow) M.T.
85	Providing and laying 20 mm thick mix seal surfacing using spcified graded crushed Black Trap stone aggregates as per MORTH gradation using VG-30 bulk bitumen for mixing at the rate of 5.1 % (51.00 Kg./M.T.) by hot mix process and hot laid process using paver finisher to the required camber and grade, including rolling with vibratory roller to achive desier density including cost of fier wood, oil, Kerosene, labour charges and hier charges of machinaries etc. complete.	33.00	MT	$= \frac{51 \times 33}{1000}$ $= \frac{51.0 \times 33.0}{1000}$ $= 1.690 \text{ M.T.}$	
82	Providing and applying tack coat with Rapid Setting Bitumen Emulsion binder (RS- 1) @ rate of 2.5 Kg./10 sq.m. of road surface using Emulsion pressure sprayer etc., cleaning the road surface complete including cost of material labour etc complete as directed by engineer in charge.	1337.00	Sqm		0.25 kg /Sqm $= 0.25 \times 1337$ $= 334.25 \text{ Kg}$ $= 0.33 \text{ MT}$
81	Providing and applying Prime coat with Slow Setting Bitumen Emulsion binder (SS- 1) @ rate of 7.5 Kg./10 sq.m. of road surface using Emulsion pressure sprayer etc.,cleaning the road surface complete including cost of material labour etc complete as directed by engineer in charge.	1337.00	Sqm		0.75 kg /Sqm $= 0.75 \times 1337$ $= 1002.75 \text{ Kg}$ $= 1.00 \text{ MT}$
83	Providing and laying 25 mm thick (Compacted ) Semi -dence Bituminous concrete on exiting bituminous surface and using specified graded black trapped machine crushed aggregate with 5% Bitumen Vg-30 - 60/70 grade bitumen by Wt of total mix as per MORTH specification including heating and mixing of asphalt with B.T. chips in continuous batch mix plant and transporting same at site and speading by sensor paver finisher and consolidation the same with pair of 8 tonnes to 10 tonnes vibratory roller to achive desire density and including flusing the stone dust @0.03 cum/10smt including cost of required tools , plants, all machineries, equipment fire wood , oil, kerosene, charges etc. complete.	33.80	MT	$= \frac{50 \times 33.8}{1000}$ $= \frac{50.0 \times 33.8}{1000}$ $= 1.69 \text{ M.T.}$	

Item No. (As per Tender)	Item	Qty	Unit	Asphalt	Emulsion (Rapid/Slow) M.T.
84	Providing and laying compacted Bituminous concrete using BT aggregate as per MORTH gradation ,specification and asphalt Grade VG 30 mixing @54.00 Kg /MT of total Wt. of mix i.e. (5.40% of total weight mix) including heating and mixing aggregate & asphalt by batch mix plant spreading the same by sensor paver finisher including rolling & consolidation with 10-12 tonne vibratory roller,Tandem Roller ,PTR & providing all materials equipment's tools & plants, fire wood, oil , kerosene,labour charges , using contractor 's own machinery etc. Complete as directed by engineer in charge as per MoRTH Specification	28.50	MT	$= \frac{54 \times 28.5}{1000}$ $= \frac{54.0 \times 28.5}{1000}$ $= 1.54 \text{ M.T.}$	
		Type of Ashpalt		Asphalt ( VG-30 )	Emulsion ( Slow & Rapid) M.T.
		Total Asphalt		4.920	RS 0.33
				M.T.	SS 1.00

*[Signature]*  
**Deputy Executive Engineer,**  
**R & B. (Panchayat) Sub Division**  
**JAM KHAMBHALIA.**  
**Bhumvad**


**Dy. Exe. Engg,**  
**Panchayat (R&B) Sub Division,**

*[Signature]*  
**Executive Engineer,**  
**Panchayat (R&B) Division,**  
**DevBhumi Dwarka**


**NAME OF PROJECT : RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**STEEL CONSUMPTION**

Item No. (As per Tender)	Brief Description	Qty. in MT	Unit
<b><u>For Package-3</u></b>			
41	FE -500/500D for (A) Piers (B) Abutments (C) Returns (D) Walls etc.	16.75	MT
42	FE -500/500D for (A) Pier cap (B) Abutment cap & Dirt walls.	7.50	MT
43	FE -500/500D for (A) Solid slab	49.00	MT
44	FE -500/500D for (A)RCC kerb (B) RCC Footpath (B) RCC Solid Slab/ App. Slab / Wearing coat.	70.10	MT
	<b>Total Qty. =</b>	<b>143.35</b>	<b>MT</b>

  
**Deputy Executive Engineer,**  
**R. & B. (Panchayat) Sub Division**  
**DevBhumi Dwarka.**  
**Bhuvan**

  
**Dy. Exe. Engg.,**  
**Panchayat (R&B) Sub Division,**

  
**Executive Engineer,**  
**Panchayat (R&B) Division,**  
**DevBhumi Dwarka**

**NAME OF PROJECT : RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**CEMENT CONSUMPTION**

Sr. No.	Item No. (As per Tender)	Grade of Concrete	Brief Description	Qty.	Unit	Rate of Consumption in Kg per unit	Cement consumption in kg.
<b>For Package-3</b>							
1	19	M-10	For PCC below Foundation	26.6	Cum	220.00	5,852.00
2	17	M-15	For PCC below Foundation	501.90	Cum	290.00	1,45,551.00
3	18	M-15	For PCC without V-Grooves for all Ht.	110.20	Cum	290.00	31,958.00
4	20	M-15	For PCC below Foundation	171.20	Cum	290.00	49,648.00
5	22	M-20	For cast in situ	154.60	Cum	360.00	55,656.00
6	23	M-20	For Pier, Abutment, Return wall	1493.10	Cum	360.00	5,37,516.00
7	25	M-20	For CC Toe wall & Curtain wall	40.00	Cum	360.00	14,400.00
8	31	M-20	For Wearing coat	19.80	Cum	360.00	7,128.00
9	33	M-20	For Kerb/Kerb block	12.30	Cum	360.00	4,428.00
10	26	M-25	For RCC Raft	418.90	Cum	380.00	1,59,182.00
11	29	M-25	For RCC Solid Slab	190.90	Cum	380.00	72,542.00
12	35	M-25	For RCC Approach slab	63.20	Cum	380.00	24,016.00
13	27	M-30	For CC Raft footing	890.00	Cum	410.00	3,64,900.00
14	24	M-30	For CC Pier, Abutment, Return wall	545.00	Cum	410.00	2,23,450.00
15	28	M-30	For RCC Pier cap, Abutment cap, Dirt wall	75.00	Cum	410.00	30,750.00
16	30	M-30	For RCC Solid Slab	540.00	Cum	410.00	2,21,400.00
17	34	M-30	For Kerb	60.00	Cum	410.00	24,600.00
18	36	M-30	For RCC Approach slab	40.00	Cum	410.00	16,400.00
19	32	M-30	For RCC Wearing coat	44.80	Cum	410.00	18,368.00
20	60 to 70		For Sign Boards	39.00	Nos	83.20	3,244.80
21	21		For Dry rubble stone pitching	324.00	Sqm	1.17	379.08
<b>Total Qty. = 5760.50 Cum</b>						<b>Total in Kg.</b>	<b>20,11,368.88</b>
						<b>SAY KG.</b>	<b>20,11,400.00</b>
						<b>i.e. Bags.</b>	<b>40228.00</b>
						<b>i.e. M.T.</b>	<b>2011.40</b>

*[Signature]*  
**Deputy Executive Engineer,**  
**R. & B. (Panchayat) Sub Division**  
**DevBhumi Dwarka.**

*[Signature]*  
**Dy. Exe. Engg.,**  
**Panchayat (R&B) Sub Division,**

*[Signature]*  
**Executive Engineer,**  
**Panchayat (R&B) Division,**  
**DevBhumi Dwarka**

**NAME OF PROJECT : RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).**

**COST OF BASIC MATERIALS**

Sr. No.	Materials	Qty.	Unit	Rate	Per	Amount in Rs.
1	2	3	4	5	6	7
1	Cement	2011.400	M.T.	5234.00	M.T.	1,05,27,667.60
2	Steel (Fe-500D)	143.35	M.T.	59420.00	M.T.	85,17,857.00
3	Bulk Asphalt (VG-30)	4.920	M.T.	52992.00	M.T.	2,60,720.64
	<b>TOTAL</b>					<b>1,93,06,245.24</b>

  
Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division

~~SEKHAR KUMAR~~  
Ghumvad

  
Dy. Exe. Engg,  
Panchayat (R&B) Sub Division,

  
Executive Engineer,  
Panchayat (R&B) Division,  
DevBhumi Dwarka

Qty. calculation of different material								
It No (As per Tender)	Item	4.75 to 9.5 mm 2.36 to 4.75 mm 2.36 to 9.5 mm	9.5 to 53 mm 22.4 to 45 mm 19 to 26.5 mm	2.36 to 22.4 mm 4.75 to 13.2 mm	13.2 to 19.0 mm 26.5 to 37.5 mm 13.2 to 26.5 mm 9.5 to 13.2 mm	Rubble	SAND	STONE DUST
For Package-3								
39	Sand						100.0%	
	1780.00						1780.00	
	Cmt							
21	Rubble Stone Pitching							
	324					91.12	1.00	
	Sqm							
79	GSB - I	50.0%	50.0%					
	239	119.50	119.50					
	Cmt							
80	WMM		30.0%	40.0%				30.0%
	296.9		89.07	118.76				89.07
	Cmt							
85	MSS	44.0%			30.0%			26.0%
	33	9.58			6.53			5.66
	MT							
7	WBM-2		82.5%		11.3%			6.3%
	195.60		258.19		35.21			19.56
	Cmt							
84	BC	29%			21%			50%
	70.50	13.49			9.77			23.27
	MT							
83	SDBC	23.00%		47.00%				30%
	33.8	5.13		10.48				6.69
	MT							
	For Other Item		66.67%				33.33%	
	5760.50		5185.00				2592.00	
	Cum							
Total Qty (in Cum) =		147.70	5651.76	129.24	51.51	91.12	4373.00	144.25

NAME OF PROJECT : RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

**COST OF OTHER MATERIALS**

Sr. No.	Item No. (As per Tender)	Materials	Qty.	Unit	Rate	Per	Amount in Rs.
1	2	3	4	5	6	7	8
<b>For Package-3</b>							
1		Sand	4373.00	Cmt.	293.27	Cum	12,82,469.71
2		4.75 to 9.5 mm, 2.36 to 4.75 mm, 2.36 to 9.5 mm	147.70	Cmt.	394.50	Cmt.	58,267.65
3		9.5 to 53 mm, 22.4 to 45 mm, 19 to 26.5 mm	5651.76	Cmt.	509.64	Cmt.	28,80,344.13
4		2.36 to 22.4 mm, 4.75 to 13.2 mm	129.24	Cmt.	469.87	Cmt.	60,725.35
5		13.2 to 19.0 mm, 26.5 to 37.5 mm, 13.2 to 26.5 mm, 9.5 to 13.2 mm	51.51	Cmt.	523.88	Cmt.	26,985.16
6		Stone dust	144.25	Cmt.	157.11	Cmt.	22,663.12
7		Rubble	91.12	Cmt.	221.45	Cmt.	20,178.52
8	5,6, 49	Earth	8162.20	Cum	125.00	Cum	10,20,275.00
9	78	Subgrade	177.00	Cum	250.00	Cum	44,250.00
10	3	Barricade	20.00	No	1821.00	No	36,420.00
11	47	Flood gauge marks	44.50	Rmt	117.00	Rmt	5,206.50
12	4	Watercourse/ cofferdam	5.00	No	35000.00	No	1,75,000.00
13	16	Rubble for apron (wt > 40kg)	288.10	Cum	759.00	Cum	2,18,667.90
14	73	Anti carbonation paint	1325.00	Sqm	85.00	Sqm	1,12,625.00
15	38	Filter Media	498.80	Sqm	620.00	Sqm	3,09,256.00
16	37	Weep hole	987.00	No	52.00	No	51,324.00
17	15	Dowel bars (Footing)	155.00	Rmt	315.05	Rmt	48,832.75
18	74	Load test	200.00	MT	118.94	MT	23,788.00
19	46	GI water spouts	80.00	No	428.82	No	34,305.60
20	45	Asphalt filler joint	82.80	Sqm	562.82	Sqm	46,601.50
21	40	Dowel bars (Super structure)	60.00	No	315.05	No	18,903.00
22	48	Synthetic enamel paint	199.00	Sqm	57.27	Sqm	11,396.73
23	71	Thermoplastic paint	92.00	Sqm	257.40	Sqm	23,680.80
24	72	Cat Eye / Road stud	74.00	No	260.98	No	19,312.52
25	60	Regulatory / Mandatory sign	2.00	No	2771.24	No	5,542.48
26	75	Thrie Metal beam crash barrier	284.00	Rmt	2901.53	Rmt	8,24,034.52
27	86	W Metal beam crash barrier	284.00	Rmt	2606.42	Rmt	7,40,223.28
28	21	Murrum from dry rubble pitching	24.30	Cmt.	143.64	Cmt.	3,490.45
29		Emulsion RS-1	0.33	MT	53382.00	MT	17,842.93
30		Emulsion SS-1	1.00	MT	85748.00	MT	85,983.81
31	50	NP3 Pipes (900mm Dia)	110	Rmt	2517.85	Rmt	2,76,963.50
32	58	All weather temp diversion suitable	424	Rmt	2206.73	Rmt	9,35,653.52
33	59	Flood gauge post mark of C angle	2	No	684.17	No	1,368.34
34	61	Distance Informatory / Destination Sign	2	No	12550.87	No	25,101.74
35	62	Diversion Ahead sign	2	No	6403.00	No	12,806.00
36	63	Men at work sign	2	No	2977.28	No	5,954.56
37	64	Sign board per SQM	5	No	7386.53	No	36,932.65
38	65	Cautionary Warning Sign - Class C	2	No	3046.36	No	6,092.72
39	69	Cautionary Warning Sign - Engineering grade	2	No	2285.19	No	4,570.38
40	66	Chevron Sign	10	No	2808.81	No	28,088.10
41	67	Hazard Marker - Class C	2	No	2199.78	No	4,399.56

Sr. No.	Item No. (As per Tender)	Materials	Qty.	Unit	Rate	Per	Amount in Rs.
1	2	3	4	5	6	7	8
42	68	Hazard Marker - Class B	8	No	2111.21	No	16,889.68
43	70	MMGSY Sign Board	2	No	6917.49	No	13,834.98
44	76	Guard stone	236	No	72.49	No	17,107.64
<b>TOTAL</b>							<b>96,14,359.78</b>



NAME OF PROJECT : RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

**CALCULATION FOR COST OF POL**

No.	Materials						Amount in Rs.
[1] Cement	2011.40	M.T.					
20 M.T. / trip - Average lead Km.	=	50.00					
No. of trips	=	2011.40	/	20	=	101.00	Trip
Distance Traveled	=	101	x	50.00	=	5050	Km.
Diesel :	=	5.00	Km. / Liter				
Oil :	=	140.00	Km. / Liter				
					Rate		
Diesel Cost	=	5050	/	5	x	88.00	= 88880.00
Oil Cost	=	5050	/	140	x	155.08	= 5593.96
						<b>Total</b>	<b>= 94,473.96 [1]</b>
[2] Steel							
TMT Steel	=	143.350	M.T.				
20 M.T. / trip - Average lead Km.	=	50.00					
No. of trips	=	143.350	/	20	=	7.00	Trip
Distance Traveled	=	7	x	50.00	=	350	Km.
Diesel :	=	5.00	Km. / Liter				
Oil :	=	140.00	Km. / Liter				
					Rate		
Diesel Cost	=	350	/	5.00	x	88.00	= 6160.00
Oil Cost	=	350	/	140.00	x	155.08	= 387.70
						<b>Total</b>	<b>= 6,547.70 [2]</b>
[3] Bulk Asphalt	=	4.920	M.T.				
20 M.T. / trip - Average lead Km.	=	455.00					
No. of trips	=	4.920	/	20	=	1.00	Trip
Distance Traveled	=	1	x	455.00	=	455	Km.
Diesel :	=	5.00	Km. / Liter				
Oil :	=	140.00	Km. / Liter				
					Rate		
Diesel Cost	=	455	/	5.00	x	88.00	= 8008.00
Oil Cost	=	455	/	140.00	x	155.08	= 504.01
						<b>Total</b>	<b>= 8,512.01 [3]</b>
[4] Sand & Murrum	=	7915.14	MT				
14 MT. / trip - Average lead Km.	=	240.00					
No. of trips	=	7915.14	/	14.00	=	565.00	Trip
Distance Traveled	=	565	x	240.00	=	135600	Km.
Diesel :	=	5.00	Km. / Liter				

No.	Materials				Amount in Rs.			
	Oil :	=	140.00	Km. / Liter				
					<b>Rate</b>			
	Diesel Cost	=	135600	/	5.00	x	88.00	= 2386560.00
	Oil Cost	=	135600	/	140.00	x	155.08	= 150206.06
							<b>Total</b>	= <u>25,36,766.06</u> [4]
[5]	<b>B.T grit ,kapchi, Metal ,Stone dust</b>	=	9323.37	MT				
	14 MT / trip - Average lead Km.	=	25.00					
	No. of trips	=	9323.37	/	14.00	=	666.00	Trip
	Distance Traveled	=	666	x	25.00	=	16650	Km.
	Diesel :	=	5.00	Km. / Liter				
	Oil :	=	140.00	Km. / Liter				
					<b>Rate</b>			
	Diesel Cost	=	16650	/	5.00	x	88.00	= 293040.00
	Oil Cost	=	16650	/	140.00	x	155.08	= 18443.44
							<b>Total</b>	= <u>3,11,483.44</u> [5]
[6]	<b>Emulsion Asphalt</b>	=	1.34	M.T.				
	20 M.T. / trip - Average lead Km.	=	455.00					
	No. of trips	=	1.337	/	20	=	1.00	Trip
	Distance Traveled	=	1.00	x	455.00	=	455.00	Km.
	Diesel :	=	5.00	Km. / Liter				
	Oil :	=	140.00	Km. / Liter				
					<b>Rate</b>			
	Diesel Cost	=	455	/	5.00	x	88.00	= 8008.00
	Oil Cost	=	455	/	140.00	x	155.08	= 504.01
							<b>Total</b>	= <u>8,512.01</u> [6]
[7]	<b>Concrete Batch mix plant</b>							
	Total Concrete in Cum	=	5760.50	Cum				
	Considering concreting can be done at 30 cu.mt/day and							
	15 liter diesel consumed per day for running concrete mixer machine per day.							
		=	5760.50	/	30	=	192.02	Days
	Day			liter/day				
	Diesel	=	192.02	x	15	=	2880.3	Liter Diesel
				<b>Rate</b>				
	Diesel Cost	=	2880.25	x	88.00			= 253462.00
							<b>Total</b>	= <u>2,53,462.00</u> [7]
[8]	<b>Consolidation</b>							
a	Earthwork							
	Area =		41696.00			=	41696.00	Sq.mt.
b	BC							
	Area =		587.50			=	587.50	Sq.mt.
c	GSB							
	Area =		1593.33			=	1593.33	Sq.mt.
d	WBM - 2							
	Area =		1956.00			=	1956.00	Sq.mt.
e	WMM							
	Area =		1187.60			=	1187.60	Sq.mt.
f	MSS							
	Area =		750.00			=	750.00	Sq.mt.
g	SDBC							
	Area =		587.83			=	587.83	Sq.mt.
h	Sand Filling							
	Area =		7120.00			=	7120.00	Sq.mt.
	Total Consolidation (a) to (h)				=	55478.26	Sq.mt.	

No.	Materials				Amount in Rs.	
For Consolidation	1460 Sq.mt.-15Liter Diesel Required					
Diesel required =	$\frac{55478.26 \times 15}{1460.00}$	=	569.98 Lit.			
Now Cost of Diesel =	569.98 x	88.00	=		<b>Total =</b>	50,158.43 [8]
<b>[9] Hot Mix Plant</b>						
Total mix Material						
BC	70.50		70.50			
SDBC	33.80		33.80			
MSS	33.00	=	33.00 M.T.			
Considering L.D.O. required for M.T. 5 lit		=	686.50 Lit			
Cost of L.D.O. =	686.50 x	say =	686.50 Lit			
Add 10 % Oil charges		92.610 =	63576.765			
		MR	= 6357.6765			
			= 69934.44	<b>Total =</b>	69,934.44	[9]
<b>Total Cost of POL = [1] To [9] =</b>					<b>33,39,850.04</b>	<b>Rs.</b>

Name of work :-

RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

CERTIFICATE


This is Certify that


- 1.0 Description of the condition of contract attached with DTP are thoroughly checked and found a per gujarat Public works manuals.
- 2.0 The condition of contract and precibed from attached with DTP of the proposed Road works are ammended/modified/replaced as per the time to time instruction issued by Government.
- 3.0 BOQ memorendum and other precribed forms of DTP is 100% thoroughly checked w.r.t. arithmatically aspects and forund correct.



Senior Clerk  
Panch. R&B Sub Division

  
Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division  
JAM-KHAMBHALIA.

  
Deputy Executive Engineer  
Panch. R&B Sub Division

  
Tender Clerk  
Panch. R&B Division  
Devbhumi Dwarka

  
Divisional Accountant  
Panch. R&B Division  
Devbhumi Dwarka

  
Executive Engineer  
Panch. R&B Division  
 Devbhumi Dwarka

  
Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division  
~~JAM-KHAMBHALIA.~~

Bhuvrao



Name of work :-

RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

CERTIFICATE

This is Certify that

- 1.0 Description of the General Technical Specification the Detailed Specification of Items attached with DTP are throughly checked and found as per Gujarat public work manuals,
- 2.0 The General Technical specification and detailed sepcification of items of the proposed road works are amended/modified/replaced as per the time ti time istruction issued by the Government.
- 3.0 The detailed sepcification of each items are provided as per accorded technical sanctioned plan and estimated.
- 4.0 BOQ, C and schedule for restig of materials of DTP is throughly checked w.r.t technical aspects,
- 5.0 Submitted DTP is checked and verified with respect to all points and found is order personally and there is no any ambiguity of descerepancy so as to lead any finanacial or contractual implications.
- 6.0 Necessary required drawing i.e Index Map, Alighment plant and Taluka map and Typical cross section are attached with DTP

Add. Assi. Engineer  
Panch. R&B sub Division

Deputy Executive Engineer  
Panch. R&B subDivision

Executive Engineer  
Panch. R&B Division  
Devbhumi Dwarka

Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division

JAM KHAMBHARIA.

Bhuvud



Name of work :-

RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

**PROFORMA-A**

**(To Accompany with Submission of DTP)**

<b>1. Tender Forms DTP</b>			
A	Whether the Old clauses are replaced by the latest clauses as per Government instruction. ?		Yes
B	If yes, State the number wise details of clauses replaced.		-
C	Whether time limit entered its is proportion with the amount and number of work. ?		Yes
D	Whether the details wise mention of security Deposit etc. are written in tender form ?		As per SBD
<b>2. Schedule-A</b>			
A	Whether schedule-A gives details of the materials to be supplied under Schedule-A ?		To be purchase from open market through contractor.
B	Does it mention the correct place of delivery of materials to be supplied under Schedule-A ?		N.A
C	Whether the rates of materials are mentioned in the Figure as well as in the words. ?		N.A
D	Whether the rate entered in schedule-A is correctly Derived ?		N.A
E	Whether the rate entered in schedule-A correctly arrived at as norms ?		N.A

I have personally verified the fact as stated above and found in order.



Divisional Accountant  
Panchayat R&B Division  
Devbhumi Dwarka



Executive Engineer  
Panchayat R&B Division  
Devbhumi Dwarka





### **3. Bil of Quantitiy**

(i)	Whether the description of each item literely tally with the sanctioned estimate except specifying of lead etc. comp.	Yes.
(ii)	Whether quantity of each item is as per sanctioned estimate/ If not, state the reasons with due justification of deviation in covering letter of the DTP.	Yes.
(iii)	Whether the rate of each items is as per sanctioned estimate ? If not, state the reasons with due justification for Deviation in covering letter of the DTP. and incorporate the analysis in covering letter of DTP.	Yes.
(iv)	Whether unit of each item is per sanctioned estimate ? If not, state reasons with due justification for diviation in covering letter of DTP.	Yes.
(v)	Whether the rate of each item in BOQ is mentioned in words in case of % rate tender.	Yes.
(vi)	Whether the standard method is adopted in each item in writing the Units. (e.g Cubic meter to abbreviated as Cum and not applicable not C.M. etc.)	Yes.
(vii)	Whether the Govt, remarks if any observed at the time of according sanctioned are fully incorporate in the DTP. If, yes submit compliance report.	N.A.
(viii)	Whether correct name of work is entered at the top of BOQ	Yes.
(ix)	Whether standard form for BOQ is adopted.	Yes.
(x)	Whether the standard words for descourt or premium on tendred rate as " I/we am/are." is mentioneda at the end ?	N.A.
(xi)	Whether the amount worked out for each item is correctly calculated and submit up ?	Yes.
(xii)	Whether alternate items are proposed in the DTP, ? If yes state the Item no. for which alternative item is proposed,	No

### **4. Detailed of Specification**


(i)	Whether the detailed specification correctly reflect the tender Item ?	Yes.
(ii)	Whether items with sepcified lead and lift are counverted in to with all lead and lift.	Yes.
(iii)	Whether correct made of mesurement is mentioned ?	Yes.




(iv)	Whether correct mode of payment is as per BOQ ?	Yes.
(v)	Whether suitable use of excavated materials or cutting stuff is incorporated in the DTP. ?	N.A.
(vi)	Whether the mentioned regarding the test to be carried out before execution is made herewith in the respective item of DTP.	Yes Test schedule attached herewith.
(vii)	Whether reference to PWD hand book is specification of IRC clause are mentioned correctly and relevantly in the respective item ?	Yes.
(viii)	Whether the test to be carried out during execution is made ? Stated the item No. with description and details of tests to be carried out in brief ?	Yes Test schedule attached herewith.
(ix)	Whether average rate of earthwork derived and entered in BOQ If, yes give rate analysis.	No
(x)	Whether the description of each item literally and exactly with that in BOQ. ?	Yes.


#### 4. Detailed of other items.

(i)	Whether statement of item not put to tender is incorporated with detailed justification.?	No.
(ii)	Whether the amount of sanctioned estimated tally with the total of amount put to tender and amount not put to tender ?	Yes.
(iii)	Whether page number in DTP is made.	Yes.
(iv)	Whether permission to split up the work ? If yes give information with competent authority.	N.A.
(v)	Whether the general specification and other relevant records are incorporated DTP.	Yes.
(vi)	Whether Executive Engineer has signed the DTP. and all correction are attested by him.	Yes.
(vii)	Whether the DTP. are submitted in well bound volume and in neat and tidy fashion /	Yes.

  
A.A.E. (PB)  
R&B Division  
Devbhumi Dwarka

  
Deputy Executive Engineer  
Panchayat R&B Sub Division

  
Executive Engineer  
Panchayat R&B Division  
Devbhumi Dwarka

  
Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division  
~~JABALPUR~~  
Bhuvard



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**Name of Work:** RECONSTRUCTION OF MINOR BRIDGES, BOX CULVERTS & PIPE CULVERTS AT VARIOUS LOCATIONS IN DEV-BHOOMI DWARKA DISTRICT (PANCHAYAT) UNDER MMGSY, IN THE STATE OF GUJARAT (PACKAGE-3).

1	Principle Approval Date and Amount	:-	RPC/STRUCTURE/JOB NO/2024/95/D1 Dated 15.07.2025
2	Administrative Approval Date and Amount (Not received than Block Estimate Submission Date)	:-	-
3	SOR Year	:-	2024-25
4	Technical Approval Date and Amount	:-	1) Shedhakhai Road PB/DBM/TS/SCSP/423/2026 Dated 28.01.2026 Amount: Rs. 3,04,61,000.00 2) Ran Mevasa Virpur Road PB/DBD/TS/SCSP/537/2026 Dated 05.02.2026 Amount: Rs. 3,00,00,000.00
5	DTP amount	:-	Rs. 5,12,05,214.31
6	Tender Fee Rs.	:-	12,000.00
7	Earnest Money Deposit (Bid Security) Rs.	:-	Rs. 5,13,000/-
8	Performance security as per Clause 34 (Pg.22) 5%	:-	Rs. 25,60,260.72
9	Retention money Max. (5%)	:-	Rs. 25,60,260.72
10	Time Limit (Months) with bar chart	:-	<del>11</del> Months (Including Monsoon)
11	Registration category required	:-	"A" Class & Special Category-II Bridge
12	Bonus Applicable ( Y / N )	:-	Y
13	Sub-Contractor Work Limit (%)	:-	--
14	Site Possession Date	:-	1st day of work order
15	Period between Program Update (Days)	:-	<del>92 days</del> 30 days
16	Amount to be withheld for late submission of Program	:-	01 Lakhs
17	Joint Venture Required? (Yes/No)	:-	No

18	Defect Liability Period (In Months & includes no. of Monsoons)	:-	<del>60</del> months including <del>5</del> (Five) Monsoon <del>36</del> <del>3</del> (three) periods.
19	Free Maintenance Guarantee Period (for Road & Bridge Construction)	:-	<del>04</del> years 5
20	Liquidated Damage as mentioned in Clause 49.1	:-	
21	Milestone Dates :- (Contract Data, Point 5)	:-	in %
(A)	Milestone 1	:-	10%
(B)	Milestone 2	:-	40%
(C)	Milestone 3	:-	80%
(D)	Milestone 4	:-	100%
22	Contract Data (Point 24), %	:-	100%
(A)	Labour, P <sub>L</sub>	:-	25.90%
(B)	Cement, P <sub>C</sub>	:-	20.56%
(C)	Steel, P <sub>S</sub>	:-	16.63%
(D)	Bitumen, P <sub>B</sub>	:-	0.51%
(E)	POL, P <sub>F</sub>	:-	6.52%
(F)	Plant and Machinery Spares P <sub>P</sub>	:-	11.10%
(G)	Other Materials, P <sub>M</sub>	:-	18.78%
23	Mobilization advance if any	:-	No
24	Equipment advance if any	:-	No
25	Percentage Rate Contract / Item Rate Contract	:-	Percentage Rate Contract

Deputy Executive Engineer  
R&B Panchayat Division,

Executive Engineer  
R&B Panchayat Division,  
Dev Bhoomi Dwarka

Deputy Executive Engineer,  
R. & B. (Panchayat) Sub Division,

JALAN KENDARA.

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and on \_\_\_\_\_

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**PANCHAYAT (ROAD & BUILDING) DEPARTMENT**  
(Devbhumi Dwarka)

Name of Work :-

**Reconstruction of Existing Bridge on Ch 8/300 to 8/500 on Bhangor Jogara Shedhak Road.  
Taluka- Bhanvad District- Devbhoomi Dwarka**

**RECAPITULATION SHEET**

No.	Title	Estimated Amount SOR (2024-25)
<b>1</b>	<b>Shedakhai Minor Bridge</b>	
A.	Sub Estimate 1: Minor Bridge Work	₹ 2,41,26,057.83
B.	Diversion Works	₹ 5,46,399.95
	<b>Total 1 (A + B) =</b>	<b>₹ 2,46,72,457.78</b>
	<b>18% GST (Total 1)</b>	<b>₹ 44,41,042.40</b>
	<b>Total 2 (Total 1 + GST) =</b>	<b>₹ 2,91,13,500.18</b>
	<b>1.0 % Quality Control (on Total 2)</b>	<b>₹ 2,91,135.00</b>
	<b>1.0 % Contingency &amp; WC (on Total 2)</b>	<b>₹ 2,91,135.00</b>
	<b>3.1 % Design Consultancy Fees (on Total 1)</b>	<b>₹ 7,64,846.19</b>
	<b>Total Cost (Rs.) =</b>	<b>₹ 3,04,60,616.37</b>
	<b>Say Rs. =</b>	<b>₹ 3,04,61,000.00</b>
	<b>GRAND TOTAL (IN LAKH)</b>	<b>₹ 304.61</b>

**Perusal sanction for**

Rs. 3,04,61,000.00

(Rs. Three crore four lakh..

Sixty one thousand..

only)

Letter No. EOT/2725/429/0-1

Dated.....

**PART / FULLY / REVISED**

Technically Sanctioned for Rs. 3,04,61,000.00  
(Rupees) Three crore four lakh  
Sixty one thousand only

and entered in T.S. Register for the Year 2025-26  
on Page No. 100 Sr. No. 202  
with / without remarks, Vide Circle Office Order  
No. PB/DBM/TS/SCSP/423/2026  
Date 28/01/2026

*[Signature]*  
S.E., P(R. & B) Circle-1, RAJKOT.

*[Signature]*  
C. E. (Saurashtra) & A. S.  
Sachivalaya, Gandhinagar  
R. & B. Department

*[Signature]*  
Dy. Exe. Engg,  
Panchayat (R&B) Sub Division,  
Bhanvad

*[Signature]*  
Executive Engineer,  
Panchayat (R&B) Division,  
Dev Bhumi Dwarka

Superintending Engineer  
Panchayat R&B Department,  
Rajkot Circle 1



RECAPITULATION SHEET

Name of work : **Re-Construction of Ex. Bridge on Ch.8/300 to 8/500 on Bhangor Jogara  
Shedhakhai road, Ta: Bhanvad Dist: Devbhumi Dwarka**

Ref : (1) The GOG, R.&B. Department, Gandhinagar Letter No. RPC/Structure/JOB/2024  
No.95/D-1 Date: 15/07/2025 (Sanct.Amt.300.00 lac)  
(2) GOG, R.&B. Department, Gandhinagar Letter No.EOT/2725/428/D1  
Dt.07/01/2026

**// TECHNICAL SANCTION ORDER //**

In exercise of power vested vide the GOG, R.&B. Department, Gandhinagar No. P.D.W/102007/1 (Part-2)/S, Dated 29/01/2025 for according Technical Sanction to the Plans & Estimates, the Technical Sanction for the subjected work of amounting to **₹ 3,04,61,000.00 Rupees Three Crore Four Lacs Sixty-One Thousand Only** is hereby accorded in respect to above refereed letters. The Technical Sanction is registered at Pg No. 160 Sr No. 297 in the Technical Sanction register maintained in the Circle office.

The item covered up under above referred Technical Sanction is as under:

Name of Work	Treatment/ Items	Estimated Cost Rs.
Re-Construction of Ex. Bridge on Ch.8/300 to 8/500 on Bhangor Jogara Shedhakhai road, Ta: Bhanvad Dist: Devbhumi Dwarka	Minor Bridge (6.00X10.00 Mtr.)	₹ 3,04,61,000.00

**Condition:**

- Administrative approval for the same amount equal to the Technical Sanction shall have to be obtained from District Panchayat.
- Instructions mentioned in the Govt. letter (1) shall be followed strictly.
- It is presumed that
  - The site condition for this work is verified & checked by the SO/ DEE / EE
  - Provision made in this estimate is as per actual site condition and actual requirement.
  - Rates & measurements taken in this estimate are arithmetically checked & correct for all items by the division office.
- Work shall not be splitted up without prior approval from the Government.
- Expenditure of this work shall be debited to the A/C of Demand No: **MMGSY (SCSP) (95-5054-04-337-03) Sr.No.9**
- Earthwork to be carried out only after taking initial levels.
- The foundation levels shown are tentative, in actual execution the same shall be finalized on the basis of actual soil strata met with and the safe bearing capacity of the strata at foundation level. S.B.C. report shall be from GERI/(R & B) Approved laboratory.
- Sanctioned Plans & Estimate are sent herewith.
- As per SBD Clauses 33.1 and 33.2, the defect liability period for this work is (3) years, and the free maintenance guarantee (FMG) period is (4) years.

No.PB/DBM/TS/SCSP/ 123 /2026  
Office of the Superintending Engineer  
Panchayat (R. & B.) Circle No.1  
Rajkot.  
Date : 28 /01/2026

*Divile*  
Superintending Engineer  
Panchayat R. & B. Circle No.-1  
Rajkot

**Copy to :-** 1) The Executive Engineer, Panchayat R.&B. Division, Devbhumi Dwarka.  
2) The Deputy Executive Engineer, Panchayat R.&B. Sub Division, Bhanvad.

**Copy Submitted to :-** The Chief Engineer (Sau.) & Additional Secretary, R.&B. Department, Gandhinagar

Name of Work :- Construction of Box Culvert at various chainages on Ran Mevasa Virpur Aasota Road  
(MDR) Ta.:- Kalyanpur Dist.:- Devbhumi Dwarka

### RECAPITULATION SHEET

Sr. No.	Sub Estimate No.	Description of Work	Chainage	Amount (Rs.)
1	Part-1	Box Culvet 6x3.0mx3.00m with App.	Km.2/000 to 2/200	88,39,818.27
2	Part-2	Box Culvet 4x3.0mx3.00m with App.	Km.9/900 to 10/100	67,10,234.05
3	Part-3	Box Culvet 2x3.0mx2.00m with App.	Km.12/500 to 12/700	36,41,776.21
4	Part-4	Box Culvet 2x3.0mx2.00m with App.	Km.20/600 to 20/800	49,33,208.96
5	Part-5	Vented Causeway 4x900mm - 20m	Km.20/500 to 21/000	10,27,833.89

Total Rs.	2,51,52,871.38
Amount After deduction of Labour Cess	2,49,03,833.05
Add 18% GST	44,82,689.95
Total Rs.	2,96,35,561.33
Add. Contingency L.S. Rs.	1,12,900.00
Add. Quality Control 1% Rs.	2,51,528.71
Total Rs.	2,99,99,990.04
Say Rs.	3,00,00,000.00

*Ram*  
Assistant Engineer/A.A.E.  
Panchayat R & B Division  
Devbhumi Dwarka/  
P.B.S.O.

Perusal sanction for  
Rs. 3,00,00,000/-  
(Rs. Three crore only)

Letter No. EOT/276/21/12-1  
Dated.....

*W.R. Rao* 2/10  
C. E. (Saurashtra) & A. S.  
Sachivalaya, Gandhinagar  
R. & B. Department

#### PART / FULLY / REVISED

Technically Sanctioned for Rs. 3,00,00,000/-  
(Rupees three crore only)  
Entered in E.B. Register for the Year 2025-26  
Page No. 163 Sr. No. 325  
with / without rev. No. Vide Circle Office Order  
No. P.O. 21/25 (S.C. 91) 534  
05-10-2025

*Devi*  
Deputy Executive Engineer  
Panchayat R & B Sub Division  
S.E. (P.R. & B.) Circle-1, RAJOURI  
Devbhumi Dwarka

*Barp*  
Executive Engineer  
Panchayat R & B Division  
Devbhumi Dwarka

Name of work : **Construction of Box Culvert at Various Chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta.Khambhaliya Dist.Devbhumi Dwarka**

Ref : (1) The GOG, R.&B. Department, Gandhinagar Letter No.RPC/Structure/Jobno/2024/95/D-1 Dt.15-07-2025 (Sanct.Amt.300.00 lac)

(2) The GOG, R.&B. Department, Gandhinagar Letter No.EOT/2726/21/D-1 Dt.21-01-2026

### // TECHNICAL SANCTION ORDER //

In exercise of power vested vide the GOG, R.&B. Department, Gandhinagar No. P.D.W/102007/1 (Part-2)/S, Dated 29/01/2025 for according Technical Sanction to the Plans & Estimates, the Technical Sanction for the subjected work of amounting to ₹ 3,00,00,000.00 **Rupees Three Crore Only** is hereby accorded in respect to above refereed letters. The Technical Sanction is registered at Pg No. 163 Sr No. 325 in the Technical Sanction register maintained in the Circle office.

The item covered up under above referred Technical Sanction is as under :

Name of Work	Treatment/ Items	Estimated Cost Rs.
<b>Construction of Box Culvert at Various Chainages on Ran Mevasa Virpur Aasota Road (MDR) Ta.Khambhaliya Dist.Devbhumi Dwarka</b>	Box Culvert – 6 x 3.0 m x 3.00 m Box Culvert – 4 x 3.0 m x 3.00 m Box Culvert – 2 x 3.0 m x 2.00 m Box Culvert – 2 x 3.0 m x 2.00 m Vented Causeway 4 x 900.00 mm-20 m	₹ 3,00,00,000.00

#### Condition:

- Administrative approval for the same amount equal to the Technical Sanction shall have to be obtained from District Panchayat.
- Instructions mentioned in the Govt. letter (1) shall be followed strictly.
- It is presumed that
  - The site condition for this work is verified & checked by the SO/ DEE / EE
  - Provision made in this estimate is as per actual site condition and actual requirement.
  - Rates & measurements taken in this estimate are arithmetically checked & correct for all items by the division office.
- Work shall not be splitted up without prior approval from the Government.
- Expenditure of this work shall be debited to the A/C of Demand No: **MMGSY (SCSP) (95-5054-04-337-03 Sr.No.09)**
- Earthwork to be carried out only after taking initial levels.
- The foundation levels shown are tentative, in actual execution the same shall be finalized on the basis of actual soil strata met with and the safe bearing capacity of the strata at foundation level. S.B.C. report shall be from GERI/(R & B) Approved laboratory.
- Sanctioned Plans & Estimate are sent herewith.

No.PB/DBD/TS/SCSP/ 537 /2026  
Office of the Superintending Engineer  
Panchayat (R. & B.) Circle No.1  
Rajkot.  
Date : 05 /02/2026

  
Superintending Engineer  
Panchayat R. & B. Circle No.-1  
Rajkot

**Copy to :-** 1) The Executive Engineer, Panchayat R.&B. Division, Devbhumi Dwarka.  
2) The Deputy Executive Engineer, Panchayat R.&B. Sub Division, Dwarka.  
**Copy Submitted to :-** The Chief Engineer (Sau.) & Additional Secretary, R.&B. Department, Gandhinagar.