

| Sr. No. |  | Description | Unit | Rate (Rs.) |  | Ref. Tech. Specs. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Labour |  | Composite |  |
| 21-7 |  |  | Extra for every $50 \mathrm{ft}(15 \mathrm{~m})$ additional lead or part thereof upto 820 ft . 250 m ) over items 21-1 and 21-6 for soft, ordinary, hard and very hard soil | Cu.m. Cu.ft. | $\begin{gathered} 43.64 \\ 1.25 \end{gathered}$ | $\begin{gathered} 43.64 \\ 1.25 \end{gathered}$ |  |
|  | b) | Extra for lift beyond first 5 ft . ( 1.5 m .) and upto 10 ft . ( 3 m .) over items 21-1 and 21-6. | Cu.m. Cu.ft. | $\begin{gathered} 112.50 \\ 3.20 \end{gathered}$ | $\begin{gathered} 22.96 \\ 0.65 \end{gathered}$ |  |
| 21-8 |  | Extra for every 50 ft . (15m) additional lead or part thereof upto 820 ft . 250 m ) for items 21-2 to 21-5 for gravel, shingle or rock. | Cu.m. Cu.ft. | $\begin{gathered} 42.00 \\ 1.20 \end{gathered}$ | $\begin{gathered} 42.00 \\ 1.20 \end{gathered}$ |  |
|  | b) | Extra for lift beyond first 5 ft . $(1.5 \mathrm{~m})$ and upto 10 ft . ( 3 m .) over items 21-2 to 21-5. | Cu.m. Cu.ft. | $\begin{gathered} 140.65 \\ 4.00 \end{gathered}$ | $\begin{gathered} 140.65 \\ 4.00 \end{gathered}$ |  |
| 21-9 |  | Compaction of earthen embankments to full depth and width below sub-grade level by mechanical means inflayers not exceeding $8^{\prime \prime}(200 \mathrm{~mm})$ in depth at optimum mojsture content including watering and mixing by mechanical means. The subgrade embankments shall be compacted to at least $95 \%$ modified AASHTO maximum dry density for their full depth and width. | Cu.m. Cu.ft. | $\begin{gathered} 224.80 \\ 6.35 \end{gathered}$ | $\begin{gathered} 502.40 \\ 14.25 \end{gathered}$ | $\begin{aligned} & 21.1 .4 .2 \\ & 21.1 .8 .2 \\ & 21.1 .8 .3 \end{aligned}$ |
| 21-10 |  | Preparation and compaction upto $95 \%$ modified AASHTO of natural ground upto a depth of 8 " $(20 \mathrm{~mm})$ in ordinary soil. | Sq.m. Sq.ft. | $\begin{gathered} 157.50 \\ 14.65 \end{gathered}$ | $\begin{gathered} 47.25 \\ 4.40 \end{gathered}$ | 21.1.4.2 |
|  | b) | Clearing and grubbing (removal) of roots including scarifying natural ground upto 8 " ( 20 mm ) depth and disposal of roots. | Sq.m. <br> Sq.ft. | $\begin{gathered} 27.00 \\ 2.50 \end{gathered}$ | $\begin{gathered} 89.10 \\ 8.30 \end{gathered}$ |  |
| 21-11 |  | Preparation of subgrade over top of compacted embankment to at least $95 \%$ modified AASHTO maximum dry density with required dressing including cutting to required grade, camber and side slopes and disposal of surplus material within a lead of 90 m | Sq.m. <br> Sq.ft. | $\begin{aligned} & 28.15 \\ & 2.61 \end{aligned}$ | $\begin{gathered} 53.60 \\ 4.96 \end{gathered}$ | 21.1.9 |
| 21-12 |  | Preparation of sub-grade over bottom of excavation with required dressing to required grade, camber and side slopes including cutting to required depth and breaking clods, watering and consolidation with suitable machanical means to attain maximum density of $95 \%$ modified AASHTO for top 6" $(150 \mathrm{~mm})$ layer including disposal of surplus earth within a lead of 90 m | Sq.m. Sq.ft. | $\begin{gathered} 59.05 \\ 5.50 \end{gathered}$ | $\begin{aligned} & 150.03 \\ & 13.95 \end{aligned}$ | 21.1.9 |
| 21-13 |  | Providing and spreading murum (stone dust) of approved quality over stone metalling (water bound macadam) or brick ballast. Watering and consolidation with road roller including all lead and lift. (murum upto $25 \%$ of road metal) (including royalty of Quarry). | Cu.m. Cu.ft. | $\begin{gathered} 540.00 \\ 15.30 \end{gathered}$ | $\begin{gathered} 1,478.45 \\ 41.85 \end{gathered}$ | 21.1.11 |
| 21-14 |  | Spreading already excavated material available at site over metalling, watering, consolidation with road roller, pre-stacking of excavated material including all lead and lift. | Cu.m. Cu.ft. | $\begin{gathered} 540.00 \\ 15.30 \end{gathered}$ | $\begin{gathered} 637.50 \\ 18.05 \end{gathered}$ | 21.1.9 |
| 21-14A |  | Providing and laying stone soling $6^{\prime \prime}$ thick with stone available at site to required grade and camber including packing with spawls, chips, watering, compacting with road roller and with all lead and lift. | Cu.m. <br> Cu.ft. | $\begin{aligned} & 624.40 \\ & 17.70 \end{aligned}$ | $\begin{gathered} 1,475.93 \\ 41.80 \end{gathered}$ | 21.1.12 |
| 21-14B |  | Providing and laying stone soling 6" thick with locally available\| | Cu.m. | 624.40 | 1,435.44 | 21.1.12 |


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|  |  | Labour |  | Composite |  |
| 21-15 |  |  | approved stone to required grade and camber including packing with spawls, chips, watering, compacting with road roller and with all lead and lift.(including royalty of Quarry). | Cu.ft. | 17.70 | 40.65 |  |
|  |  | Providing and laying crushed stone of any thickness to required grade and camber including packing with spawls, chips, watering, compacting with road roller with all lead and lift.(including royalty of Quarry). | Cu.m. Cu.ft. | $\begin{gathered} 123.10 \\ 3.50 \end{gathered}$ | $\begin{gathered} 2,072.99 \\ 58.70 \end{gathered}$ | 21.1.12 |
|  | b) | Providing and laying pitrun gravel in sub base or base course of any thickness to required grade and camber including watering and compacting with road roller with all lead and lift. (compacted thickness to be measured) |  |  |  | $\begin{aligned} & 21.1 .10 \\ & 21.1 .9 .3 \end{aligned}$ |
| 21-16 | (i) | Local approved material | Cu.ft. | 25.40 | 37.75 |  |
|  | (ii) | Margalla Hill lime stone material from out source (carriage is included from quarry to site of work) | Cu.ft. | 25.40 | 69.46 |  |
|  | (iii) | Margalla Hill lime stone locally avaliable (quarry-with in 5 km radius) | Cu.ft. | 25.40 | 52.10 |  |
|  | c) | Providing and laying Granular sub base of any thickness to required grade and camber including watering compacting with road roller and with all lead and lift. (compacted thickness to be measured) (including royalty of Quarry). | Cu.m. Cu.ft. | $\begin{gathered} 999.05 \\ 28.32 \end{gathered}$ | $\begin{gathered} 1,065.00 \\ 30.19 \end{gathered}$ | 21.1.9.3 |
|  |  | Providing and laying, soling bricks sand grouted laid on edges in herring bond or any other approved pattern to required grade and camber including rolling with power roller with all lead and lift. | Sq.m. Sq.ft. | $\begin{gathered} 172.00 \\ 16.00 \end{gathered}$ | $\begin{gathered} 679.76 \\ 19.27 \end{gathered}$ | 21.1.13 |
| 21-17 | a) | Providing and laying graded aggregate base course of crushed stone of approved quality, including placing, mixing, spreading, watering and compacting base course to required depth, camber and grade to achieve $100 \%$ max. modified AASHTO dry density conforming to AASHTO specifications T-180, with mechanical means and with all lead and lift. (Carriage of crushed stone is included in the rate, within 5km of Project premises). | Cu.m. Cu.ft. | $\begin{gathered} 103.60 \\ 2.95 \end{gathered}$ | $\begin{gathered} 1,417.89 \\ 40.15 \end{gathered}$ | 21.1.11 |
|  | b) | Providing and laying graded Margalla crushed aggregate base course confirming to AASHTO Specification upto any designed thickness in the required grade and camber and compacting to the required density by mechanical means including placing, mixing, spreading, watering and compacting with all lead and lift. |  |  |  | $\begin{gathered} \text { 21.1.10.2 } \\ \text { 21.1.11 } \end{gathered}$ |
|  | (i) | Local approved material | Cu.ft. | 23.60 | 62.75 |  |
|  | (ii) | Margalla Hill lime stone material from out source (carriage is included from quarry to site of work) | Cu.ft. | 23.60 | 105.33 |  |
|  | (iii) | Margalla Hill lime stone locally avaliable (quarry with in 5 km radius) | Cu.ft. | 23.60 | 79.00 |  |
| 21-18 |  | Providing and laying stone ballast 1.5 " to 2.5 " ( 37.5 mm -\| |  |  |  | 21.1.10.6 |



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|  |  |  | Labour | Composite |  |
|  | other approved grade using 27 lbs . of bitumen with 4 Cu.ft of $1 / 4$ " or down grade Margalla crushed aggregate per 100 Sq.ft ( 1.22 kg . of bitumen with 0.012 Cu.m. per Sq.m. of 6.4 mm standard size crushed aggregate) of road surface with rolling | Sq.ft. | 8.25 | 28.85 | $\begin{aligned} & \text { 21.1.17 } \\ & \text { 21.1.20 } \end{aligned}$ |
| 21-23 | Providing and applying prime coat of liquid asphalt (cut back) of any approved grade using asphalt (cut back) at 22 lbs . per 100 sq. ft. ( 1.07 kg . per sq.m.) including cleaning and brooming of road surface. | Sq.m. Sq.ft. | $\begin{gathered} 59.30 \\ 5.50 \end{gathered}$ | $\begin{gathered} 219.35 \\ 20.40 \end{gathered}$ | $\begin{aligned} & 21.1 .17 \\ & 21.1 .19 \end{aligned}$ |
| 21-24 | Providing and applying tack coat of bitumen $80 / 100$ or $60 / 70$ or of any approved grade using bitumen at 15 lbs . per 100 sq . ft. ( 0.75 kg . of bitumen per sq.m.) including cleaning and brooming of road surface | Sq.m. Sq.ft. | $\begin{gathered} 39.95 \\ 3.70 \end{gathered}$ | $\begin{gathered} 151.70 \\ 14.10 \end{gathered}$ | 21.1.21 |
| 21-25 | Surface dressing with bitumen $80 / 100$ or any other approved grade on a priming coat of liquid asphalt (cut-back) of any approved grade using primer at 22 vos. and bitumen at 35 lbs . with 5 cu.ft. of $1 / 2^{\prime \prime}$ and down gauge crushed-aggregate per 100 sq.ft (primer at 1.07 kg and bitumen, 1.71 kg with 0.015 cu.m. of 13 mm and down gauge crushed aggregate per sq.m.) of road surface with rolling.(including royalty of Quarry). | Sq.m. <br> Sq.ft. | $\begin{gathered} 78.85 \\ 7.35 \end{gathered}$ | $\begin{gathered} 501.90 \\ 46.65 \end{gathered}$ | $\begin{aligned} & 21.1 .18 \\ & \text { 21.1.17 } \\ & \text { 21.1.20 } \end{aligned}$ |
| 21-26 | Providing and laying 1-1/2" ( 37.5 mm ) consolidated thickness of asphalt concrete (road mix) using bitumen 80/100 or 60/70 or any approved grade with premixed Lawrencepur coarse sand flushing including compaction etc. (including royalty of Quarry). | Sq.m. Sq.ft. | $\begin{gathered} 502.09 \\ 46.65 \end{gathered}$ | $\begin{gathered} 1,174.10 \\ 109.10 \end{gathered}$ | 21.1.22 |
| i) | Using 3.5 lbs of bitumen per cu.ft. of $1 / 2^{\prime \prime}$ size crushed stone aggregate at 12 cu.ft per 100 sq.ft and 8 lbs of bitumen per cu.ft of coarse sand at 6 cu.ft per 100 sq.ft ( 56.06 kg bitumen per cu.m of 13 mm standard size crushed aggregate at 0.037 cu.m per sq.m. and 128.14 kg of bitumen per cu.m. of coarse sand at 0.018 cu.m. per sq.m) for asphalt concrete. |  |  |  |  |
| ii) | Sand flushing with 2 cu.ft of sand mixed with 16 lbs of bitumen per 100 sq.ft.of road surface including 5 lb of bitumen per 100 sq.ft. of road surface ( 0.006 sq.m of sand mixed with 0.78 kg of bitumen per sq.m of road surface including 0.24 kg of bitumen per sq.m.of road surface for painting edging with rolling. |  |  |  |  |
|  | Providing and laying 2" ( 50 mm ) consolidated thickness of asphalt concrete (road mix) using bitumen 80/100 or 60/70 or any approved grade with premixed Lawrencepur coarse sand flushing. (including royalty of Quarry). | Sq.m. Sq.ft. | $\begin{gathered} 616.86 \\ 57.35 \end{gathered}$ | $\begin{gathered} 1,435.90 \\ 133.45 \end{gathered}$ | 21.1.22 |
|  | Using 3.5 lbs of bitumen per cu.ft. of $3 / 4^{\prime \prime}$ size crushed stone aggregate at 16 cu.ft per 100 sq.ft and 8 lbs of bitumen per cu.ft of coarse sand at 8 cu.ft per 100 sq.ft ( 56.06 kg bitumen per cu.m of 19 mm standard size crushed aggregate at 0.049 cu.m per sq.m. and 128.14 kg of bitumen per cu.m. of coarse sand at 0.024 cu.m. per sq.m) for asphalt concrete. |  |  |  |  |


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|  |  |  | Labour | Composite |  |
|  | Sand flushing with 2 cu.ft of sand mixed with 16 lbs of bitumen per 100 sq.ft.of road surface including 5 lb of bitumen per 100 sq.ft. of road surface $(0.006$ sq.m of sand mixed with 0.78 kg of bitumen per sq.m of road surface including 0.24 kg of bitumen per sq.m.of road surface for painting edging with rolling. |  |  |  | 21.1.23.7 |
| 21-28 | Providing and laying 2-1/2" ( 62.5 mm ) consolidated thickness of asphalt concrete (road mix) using bitumen 80/100 of 60/70 or any approved grade with premixed Lawrencepur coarse sand flushing. (including royalty of Quarry). | Sq.m. <br> Sq.ft. | $\begin{gathered} 719.67 \\ 66.90 \end{gathered}$ | $\begin{gathered} 1,694.50 \\ 157.50 \end{gathered}$ | 21.1.22 |
| i) | Using 3.5 lbs of bitumen per cu.ft. of $1^{\prime \prime}$ size crushed stone aggregate at 20 cu.ft per 100 sq.ft and 8 lbs of bitumen per cu.ft of coarse sand at 10 cu.ft per 100 sq.ft 56.06 kg bitumen per cu.m of 25 mm standard size crushed aggregate at 0.06 cu.m per sq.m. and 128.14 kg of bitumen per cu.m. of coarse sand at 0.03 cu.m. per sq.m) for asphatheonorete., <br> Sand flushing with 2 cu.ft of sand mixed with 16 lbs of bitumen per 100 sq.ft.of road surface including 5 lb of bitumen per 100 sq.ft. of road surface ( 0.006 sq.m of sand mixed with 0.78 kg of bitumen per sq.m of road surface including 0.24 kg of bitumen per sq.m.of road surface for painting edging with rolling. |  |  |  | 21.1.23.7 |
| 21-29 | Providing and laying $1^{\prime \prime}(25 \mathrm{~mm})$ consolidated thickness of premixed sheet asphalt using liquid asphalt (cut-backs) of approved grade using cut-backs at 20 lbs per 100 sq.ft ( 0.976 kg per sq.m.) for tack coat 3.5 lbs per cu.ft of $1 / 2^{\prime \prime}$ ( 56.06 kg per cu.m of 13 mm ) standard size crushed stone at 5.50 cu.ft per sq.ft and 8 lbs of bitumen per cu.ft ( 0.016 cu.m. per sq.m. and 128.14 kg per cu.m.) or coarse sand at 5.50 cu.ft per 100 sq.ft ( 0.016 cu.m. per sq.m) of road surface, with rolling (including royalty of Quarry). | Sq.m. <br> Sq.ft. | $\begin{gathered} 237.58 \\ 22.10 \end{gathered}$ | $\begin{gathered} 766.50 \\ 71.25 \end{gathered}$ | 21.1.22 |
| 21-30 | Providing and laying hot-mix bituminous concrete runway pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, rolled hot with different types of rollers complete as per specifications and job mix formula and design upto 1.5 " ( 37.5 mm ) thickness. | M.T. | 5,558.85 | 13,601.45 | $\begin{aligned} & 21.1 .22 \\ & 21.1 .23 \end{aligned}$ |
| 21-31 | Providing and laying hot-mix bituminous concrete runway pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, roled hot with different types of rollers complete as per specifications and job mix formula and design upto 3 " ( 75 mm ) thickness. | M.T. | 4,883.65 | 12,601.80 | $\begin{aligned} & 21.1 .22 \\ & 21.1 .23 \end{aligned}$ |
| 21-32 | Providing and laying hot-mix bituminous concrete in road pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, rolled hot with different types of rollers complete as per specifications and job mix formula and design in single layer. Complete in all respect |  |  |  | $\begin{aligned} & 21.1 .22 \\ & 21.1 .23 \end{aligned}$ |
| a) | $1 "(25 \mathrm{~mm})$ thick. | Sq.m. Sq.ft. | $\begin{gathered} 210.15 \\ 19.55 \end{gathered}$ | $\begin{gathered} 808.40 \\ 75.15 \end{gathered}$ |  |




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|  |  |  | Labour | Composite |  |
| 21-45 | Providing bitumen filler of approved proprietary brand in expansion joints using 90lbs of bitumen, 0.2 lbs of cement and $0.8 \mathrm{cu} . \mathrm{ft}$ of sand per cu.ft ( 1442 kg of bitumen, 3.2 kg of cement and 0.8 cu .m. per cu.m.) of filler and fixing in position in an approved manner or as directed by the Engineer. | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{gathered} 136.50 \\ 41.60 \end{gathered}$ | $\begin{aligned} & 425.00 \\ & 129.55 \end{aligned}$ | 21.1.26.2 (f) |
| 21-46 | Providing and fixing PVC water-stop expansion joint plain 6" to $7^{\prime \prime}(150 \mathrm{~mm}$ to 175 mm$)$ wide placed horizontally at $2^{\prime \prime}(50 \mathrm{~mm})$ depth from top surface of pavement, $1 / 2^{\prime \prime}(13 \mathrm{~mm})$ wide joint filler of fibre board in bottom and top filled with premoulded bitumen filler of approved proprietary brand. | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{aligned} & 502.00 \\ & 153.00 \end{aligned}$ | $\begin{gathered} 2,281.55 \\ 695.40 \end{gathered}$ | 21.1.26.2 |
| 21-47 | Providing and filling dummy joint $1 / 4^{\prime \prime}(6.4 \mathrm{~mm})$ wide and $3^{\prime \prime}$ ( 75 mm ) deep in roads, paths or crete-ways etc. with premoulded bitumen filler of approved proprietary brand. | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{aligned} & 39.00 \\ & 11.90 \end{aligned}$ | $\begin{gathered} 108.70 \\ 33.15 \end{gathered}$ | 21.1.26.2 |
| 21-48 | Providing and making formwork for lohgitudinaljoint of tongued and grooved type in RCC or cement concrete pavement | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | - | $\begin{aligned} & 61.74 \\ & 18.80 \end{aligned}$ | 21.1.26.2 |
| 21-49 | Providing water tight joint, with 5" (125mm) wide copper strip of 24 BWG corrugated at centre and $1-1 / 2^{\prime \prime} \&(37.5 \mathrm{~mm})$ dia. staggered holes at 4 " $(100 \mathrm{~mm})$ pitch placed horizontally at $2^{\prime \prime}$ $(50 \mathrm{~mm})$ depth from top surface of pavement, $1 / 2^{\prime \prime}$ ( 13 mm ) wide joint filler of soft wood at bottom and top filled with plastic bitumen No. 4 | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{gathered} 207.83 \\ 63.35 \end{gathered}$ | $\begin{aligned} & 595.25 \\ & 181.45 \end{aligned}$ | 21.1.26.2 |
| 21-50 | Same as 21-49 but with joint filler of fiber board instead of soft wood. | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{gathered} 103.92 \\ 31.65 \end{gathered}$ | $\begin{aligned} & 822.20 \\ & 250.60 \end{aligned}$ |  |
| 21-51 | Filling longitudinal construction keyed joints with rubber sealing compound of approved brand. | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{gathered} 31.15 \\ 9.50 \end{gathered}$ | $\begin{aligned} & 89.90 \\ & 27.40 \end{aligned}$ | 21.1.26.2 |
| 21-52 | Providing and fixing in position cork sheet of required width and depth in expansion joints including painting two coats with tar coal. | Cu.m. Cu.ft. | $\begin{gathered} 136.50 \\ 3.85 \end{gathered}$ | $\begin{gathered} 140.50 \\ 4.00 \end{gathered}$ | 21.1.26.2 |
| 21-53 | Providing and fixing $6 " \times 6 " \times 30$ " $(150 \mathrm{~mm} \times 150 \mathrm{~mm} \times 750 \mathrm{~mm})$ precast $1: 2: 4$ cement concrete boundary pillars using graded crushed aggregate embedded in cement concrete 1:4:8 including formwork and its removal, compacting and curing including cost of excavation. (including royalty of Quarry). | Each | 198.45 | 1,098.50 | 21.1.27 |
| 21-54 | Providing and fixing 6"x6"x30" (150mmx150mmx750mm) stone boundary pillars embedded in cement concrete 1:4:8 including cost of excavation, cement concrete 1:4:8, backfilling of excavated stuff, cement plaster with 1:3 cement mortar, engraving and writing | Each | 316.25 | 996.60 | 21.1.27 |
| 21-55 | Providing and fixing 9" $\times 4^{\prime \prime} \times 30$ " $(230 \mathrm{~mm} \times 100 \mathrm{~mm} \times 750 \mathrm{~mm})$ precast $1: 2: 4$ cement concrete kilometer stone using graded screened bajri, embedded in cement concrete 1:4:8, formwork and its removal, compacting and curing including the cost of excavation, cement cost 1:4:8 backfilling of excavated stuff, cement plaster with 1:3 cement engraving and writing letters of approved size, painting two coats as desired. | Each | 199.40 | 1,156.20 | 21.1.28 |
| 21-56 | Providing and fixing 9" x 4" x 30" (230mm x 100mm x 750mm) | Each | 316.25 | 871.70 | 21.1.24 |



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|  |  |  | Labour | Composite |  |
|  |  | Sq.ft. | 18.90 | 42.75 |  |
| b) | 2" $(50 \mathrm{~mm})$ thick consolidated recarpeting. | Sq.m. Sq.ft. | $\begin{gathered} 326.15 \\ 30.30 \end{gathered}$ | $\begin{gathered} 719.14 \\ 66.85 \end{gathered}$ |  |
| c) | 2-1/2" (63mm) thick consolidated recarpeting. | Sq.m. Sq.ft. | $\begin{gathered} 407.69 \\ 37.90 \end{gathered}$ | $\begin{gathered} 913.77 \\ 84.90 \end{gathered}$ |  |
| 21-63 | Dismantling bitumen carpet/TST of any description from existing road surface including its removal and disposal within 90 m lead. | Sq.m. Sq.ft. | $\begin{gathered} 90.00 \\ 8.35 \end{gathered}$ | $\begin{gathered} 90.00 \\ 8.35 \end{gathered}$ | 4.1 |
| 21-64 | Dismantling of stone metalling from existing road from where bitumen carpet has already been removed-including disposal within 90 m lead. | Sq.m. Sq.ft. | $\begin{gathered} 135.00 \\ 12.55 \end{gathered}$ | $\begin{gathered} 135.00 \\ 12.55 \end{gathered}$ | 4.1 |
| 21-65 | Dismantling brick metalling from existing road from where bitumen carpet has already been removed including disposal within 90 m lead. | Sq.m. Sq.ft. | $\begin{gathered} 101.25 \\ 9.40 \end{gathered}$ | $\begin{gathered} 101.25 \\ 9.40 \end{gathered}$ | 4.1 |
| 21-66 | Dismantling brick soling from existing roadfrom where bitumen carpet \& stone metalling has already been removed including disposal of excavated stuff within 90 m lead. | Sq.m. Sq.ft. | $\begin{gathered} 67.50 \\ 6.25 \end{gathered}$ | $\begin{gathered} 67.50 \\ 6.25 \end{gathered}$ | 4.1 |
| 21-67 | Dismantling soling stone from existing road from where bitumen carpet and stone metalling have already been removed including disposal of surplus material within 90 m lead. | Sq.m. Sq.ft. | $\begin{gathered} 90.00 \\ 8.35 \end{gathered}$ | $\begin{gathered} 90.00 \\ 8.35 \end{gathered}$ | 4.1 |
| 21-68 | Cutting the worn out surface in all kinds of cement concrete roads having pot holes and ruts upto any depth and any shape incuding disposal of excavated stuff within 90 m . lead. | Sq.m. Sq.ft. | $\begin{gathered} 316.00 \\ 29.35 \end{gathered}$ | $\begin{gathered} 632.00 \\ 58.75 \end{gathered}$ | 4.1 |
| 21-69 a) | Scarifying sub-base, base or wearing coat surface of flexible pavement with pick axes or/by any other approved means upto required depth including disposal of rubbish within 90 m . | Sq.m. Sq.ft. | $\begin{gathered} 56.25 \\ 5.25 \end{gathered}$ | $\begin{gathered} 62.50 \\ 5.80 \end{gathered}$ | 4.1 |
| b) | Making grooves in existing bitumen carpet/TST of any description including removal and disposal within 90 m . lead | $\begin{aligned} & \mathrm{Rm} \\ & \mathrm{Rft} \end{aligned}$ | $\begin{gathered} 61.90 \\ 5.75 \end{gathered}$ | $\begin{gathered} 61.90 \\ 5.75 \end{gathered}$ |  |
| 21-70 | Screening existing stone or brick metal or crushed aggregate in different screens of any size and mesh along side of alignment including stacking in different grades and disposal of surplus stuff within 90 m . lead. | Cu.m. Cu.ft. | $\begin{gathered} 337.50 \\ 9.55 \end{gathered}$ | $\begin{gathered} 421.88 \\ 11.95 \end{gathered}$ | 4.1 |
| 21-71 | Filling joints or cracks with bitumen upto any depth and width including brushing, washing with kerosene oil and blending with sand. | Cu.m. Cu.ft. | $\begin{gathered} 951.13 \\ 26.95 \end{gathered}$ | $\begin{gathered} 18,138.47 \\ 513.65 \end{gathered}$ | 4.1 |
| 21-72 | Cutting trenches through bituminous road for laying pipe etc. in any width and upto required depth including dismantling kerb stones, edge stones or channels, replacing soling stones (old and $10 \%$ new) with hand refilling with (old and $25 \%$ new) ballast blinded with murum, watering and ramming complete, refixing edge stone, kerb stones in cement mortar 1:3 including recarpeting with (consolidated) asphalt macadam as per specification (cost of new stone, ballast and new murum is inclusive).(including royalty of Quarry). <br> $1 "(25 \mathrm{~mm})$ thick consolidated asphalt macadam recarpeting | Sq.m. | 770.00 | 1,484.85 | $\begin{gathered} \text { 21.2.3 } \\ \text { 21.12.3 } \end{gathered}$ |



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|  |  |  | Labour | Composite |  |
|  | grade available at site with or without blinding with coarse sand or fine aggregate including watering, dressing, consolidation by ramming in layers not exceeding 9" ( 225 mm ) in depth to full compaction including all lead and lift. (including royalty of Quarry). | Cu.ft. | 19.07 | 49.85 | 21.12 .3 |
| 21-78 | Providing and layig dry stone uncoarsed rubble pitching upto $12 "(300 \mathrm{~mm})$ thick in bottom and sides of channel or drain. (including royalty of Quarry). | Cu.m Cu.ft. | $\begin{gathered} 475.00 \\ 13.45 \end{gathered}$ | $\begin{gathered} 950.00 \\ 26.90 \end{gathered}$ | 12.2.1 |
| 21-79 | Cement pointing to stone pitching in 1:2 cement mortar in channels or drains including curing and raking out joints. | Sq.m. <br> Sq.ft. | $\begin{gathered} 182.54 \\ 16.95 \end{gathered}$ | $\begin{gathered} 349.31 \\ 32.45 \end{gathered}$ | 12.2.1 |
| 21-80 | Providing and fixing G.I. pipe railing of required diameter, comprising vertical posts and horizontal bracings offG.. pipe of the same dia including cost of specials, bends, threading cutting and making good the floor or wall and or slab of any kind in cement concrete 1:2:4 (Actual pipe length used for vertical posts and horizontal bracings to-be-measured- length of specials used not to be deducted) ${ }^{-10}$ |  |  |  |  |
| a) | 2" (50 mm) dia G.I. pipe railing | R.M. R.ft. | $\begin{gathered} 227.70 \\ 69.40 \end{gathered}$ | $\begin{gathered} 1,436.00 \\ 437.70 \end{gathered}$ |  |
| b) | 1-1/2" $(40 \mathrm{~mm})$ dia G.I. pipe railing | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{gathered} 227.70 \\ 69.40 \end{gathered}$ | $\begin{gathered} 1,190.00 \\ 362.70 \end{gathered}$ |  |
| c) | 1" (25 mm) dia G.I. pipe railing | $\begin{aligned} & \text { R.M. } \\ & \text { R.ft. } \end{aligned}$ | $\begin{gathered} 227.70 \\ 69.40 \end{gathered}$ | $\begin{aligned} & 960.00 \\ & 292.60 \end{aligned}$ |  |
| 21-81 | Providing and fixing steel bearings of standard quality and type weighing not less than 90 kg | Each set of one end | 2,914.79 | 100,996.90 |  |
| 21-82 | Providing and fixing rubber bearing pad not less than 1" (25 mm ) thick. | Sq.m. Sq.ft. | $\begin{gathered} 101.25 \\ 9.40 \end{gathered}$ | $\begin{gathered} 10,226.25 \\ 950.40 \end{gathered}$ |  |
| 21-83 | Providing and laying dry brick pavement and/or soling in streets or roads over $1 / 2$ ( 13 mm ) thick sand cushion incuding sand grouting, watering, compacting of bed to proper camber. | Cu.m. Cu.ft. | $\begin{gathered} 1,114.04 \\ 31.55 \end{gathered}$ | $\begin{gathered} 7,210.81 \\ 204.20 \end{gathered}$ | 21.1.13 |
| 21-84 | Providing and fixing road sign boards such as caution etc as approved by the Engineer with reflective paints, having superficial area of 1.125 sq.M including cost of post etc. | Each | 1,667.11 | 5,568.49 | 21.5 |
| 21-85 | Providing and laying $1^{\prime \prime}$ thick ( 25 mm ) consolidated thickness of asphalt concrete premixed bituminous carpet (including tack coat) using bitumen $80 / 100$ or of any approved grade with following percentage including compaction and finishing to required camber, grade and density. Coarse aggregate from Margalla and sand from Lawrencepur. |  |  |  | $\begin{gathered} 21.1 .24 \\ \text { 21.1.23.3(b) } \end{gathered}$ |
| a) | $3 \%$ Bitumen content | Sq.m. <br> Sq.ft. | $\begin{gathered} 323.45 \\ 30.05 \end{gathered}$ | $\begin{gathered} 685.58 \\ 63.70 \end{gathered}$ |  |
| b) | 3.5\% Bitumen content | Sq.m. Sq.ft. | $\begin{gathered} 323.45 \\ 30.05 \end{gathered}$ | $\begin{gathered} 719.84 \\ 66.96 \end{gathered}$ |  |


| Sr. No. | Description | Unit | Rate (Rs.) |  | Ref. Tech. Specs. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Labour | Composite |  |
| c) | 4\% Bitumen content | Sq.m. | 323.45 | 755.81 |  |
|  |  | Sq.ft. | 30.05 | 70.31 |  |
| d) | 4.5\% Bitumen content | Sq.m. | 323.45 | 793.60 |  |
|  |  | Sq.ft. | 30.05 | 73.82 |  |
| e) | 5\% Bitumen content | Sq.m. | 323.45 | 833.25 |  |
|  |  | Sq.ft. | 30.05 | 77.51 |  |
| f) | 5.5\% Bitumen content | Sq.m. | 323.45 | 874.94 |  |
|  |  | Sq.ft. | 30.05 | 81.39 |  |
| g) | 6\% Bitumen content | Sq.m. | 323.45 | 918.67 |  |
|  |  | Sq.ft. | 30.05 | 85.46 |  |
| 21-86 | P/F of cat eyes $(10 \mathrm{~cm} \times 10 \mathrm{~cm})$ doyble side reflector imported (Australian/American made). Complete in all respect. | No. | 175.50 | 433.71 | 21.7 |
| 21-87 | P/F of angle iron reflector aluminium body 4 " $\times 2^{2 \prime \prime}$ using diamond grade reflective tape. Complete in all respect. | No. | 360.75 | 488.43 | 21.7 |
| 21-88 | P/F of synthetic rubber speed hump 5 Cm high \& 35 Cm wide alternate black \& yellow combination | R.M. R.ft. | $\begin{gathered} 225.00 \\ 68.60 \end{gathered}$ | $\begin{gathered} 1,725.00 \\ 525.91 \end{gathered}$ | 21.7 |

