**proeqtis nomeri: 2879-GEO**

**2880-GEO(SF)**

**saangariSgebo periodi: 2013 wlis ianvari – ivnisi**

**saqarTvelo: saqarTvelos mdgradi urbanuli transportis sainvesticio programa, tranSi 2**

**(finansdeba aziis ganviTarebis bankis mier)**

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**municipaluri ganviTarebis fondi**

**Tbilisi, saqarTvelo**

**daamtkica: Aaleqsandre DdumbaZem**

**garemos dacvis, analizisa da gansaxlebis ganyofilebis ufrosma saqarTvelos municipaluri ganviTarebis fondi**

**2013 wlis 5 agvisto**

სარჩევი

[AB 2](#_Toc364090954)

[I. შესავალიN 5](#_Toc364090955)

[ა. სამშენებლო სამუშაოები პროექტის განხორციელების პროცესში 7](#_Toc364090956)

[ბ. Eგარემოსდაცვითი მართვის გუნდი 12](#_Toc364090957)

[g. პროექტის ორგანიზაცია 12](#_Toc364090958)

[II. გარემოსდაცვითი მონიტორინგი 13](#_Toc364090959)

[III. Eგარემოსდაცვითი მართვა 15](#_Toc364090970)

[ა. ობიექტის ინსპექტირება 15](#_Toc364090971)

[ბ. ანგარიშგება 15](#_Toc364090972)

[გ. შემასწორებელ ღონისძიებათა გეგმები 15](#_Toc364090973)

[დ. კონსულტაცია და საჩივრები 15](#_Toc364090974)

IV. [დანართები 16](#_Toc364090975)

1. **Sesavali**

saqarTvelos ekonomikur ganviTarebasa da turistebisaTvis mimzidvelobis gazrdaSi mniSvnelovani adgili ukavia satransporto da masTan dakavSirebuli infrastruqturis Semdgom daxvewasa da srulyofas. am kuTxiT ukanasknel wlebSi araerTi mniSvnelovani RonisZieba ganxorcielda da dafinansda rogorc saqarTvelos biujetidan, ise grantebisa da sesxebis meSveobiT. gaweuli saqmianobis miuxedavad, satransporto infrastruqturis ganviTarebis mxriv kvlavac aqtualuria araerTi problemis mogvareba, rogoricaa magaliTad satransporto infrastruqturis mowyoba.

mdgradi urbanuli transportis sainvesticio programis (SUTIP) tranSi 2 moicavs Tbilisi-wiTeli xidis (azerbaijanis sazRvari) gzis Tbilisi-rusTavis monakveTis modernizaciis samSeneblo samuSaoebs I da III monakveTebisaTvis. programa gamiznulia efeqturi, sando da ekonomiuri urbanuli infrastruqturis ganviTarebisa da momsaxurebis gaumjobesebaze. faqtiurad, gaumjoebesdeba urbanuli transportis momsaxureba da gaizrdeba sxvadasxva tipis komunaluri da socialuri samsaxurebis done.

garemosdacviTi kategorizaciis TvalsazrisiT, tranSi 2 B kategorias ganekuTvneba, radganac yvela qve-proeqti SUTIP 2 –is farglebSi B kategoriaSi iyo gaerTianebuli, rac imas gulisxmobs, rom am proeqtebs ar eqneba raime mniSvnelovani Seuqcevadi an mudmivi uaryofiTi zemoqmedeba garemoze mSeneblobis dros an mis Semdgom da maTTvis saWiro iqneba sawyisi garemosdacviTi kvlevis (IEE) Catareba

qveproeqtebis garemosdacviTi kategoriebis gansazRvra ganxorcielda ADB-is usafrTxoebis politikis dokumentis (2009) gamoyenebiT, Catarda moTxovnili garemosdacviTi Sefaseba da momzadda IEE –ebi, romlebic aseve moicavs garemosdacviTi RonisZiebebis gegmebs (EMP) romlebic IEE –is ganuyofel nawils warmoadgens da momzadda SUTIP 1-isaTvis damtkicebuli garemosdacviTi Sefasebisa da mimoxilvis CarCo dokumentis farglebSi (16.04.2010).

garemosdacviTi nebarTvebis Sesaxeb saqarTvelos kanonis Tanaxmad, saerTaSoriso da adgilobrivi mniSvnelobis saavtomobilo gzebisa da gzatkecilebis mSeneblobasa da rekonstruqciasTan dakavSirebuli saqmianobebi eqvemdebareba ekologiur eqspertizas da saWiroebs garemosdacviTi nebarTvis gacemas da garemoze zemoqmedebis Sefasebis angariSis momzadebas. Sesabamisad, Tbilisi-rusTavis gzis monakveTebisaTvis 1 da 3 momzadda garemoze zemoqmedebis Sefasebis angariSi, romelic wardgenili iqna saqarTvelos garemos dacvisa da bunebrivi resursebis saministrosaTvis da gaica dadebiTi daskvna, romelic warmoadgens garemosdacviTi nebarTvis safuZvels.

**Tbilisi-wiTeli xidis (azerbaijanis sazRvari) gzis Tbilisi-rusTavis monakveTis modernizacia**

proeqts afinansebs saqarTvelos mTavroba da aziis ganviTarebis banki (ADB). saqarTvelos municipaluri ganviTarebis fondi warmoadgens proeqtis ganmaxorcielebel organizacias. proeqti iTvaliswinebs Tbilisi-wiTeli xidis (azerbaijanis sazRvari) gzis Tbilisi-rusTavis monakveTis modernizacias.

arsebuli gzis teqnikuri parametrebi ar akmayofilebs usafrTxoebis moTxovnebs da ar uzrunvelyofs transportis Seuferxebel moZraobas. xSiri avtoavariebi iwvevs mgzavrebis sxeulis dazianebas da sikvdilianobas da aseve ekonomikur zarals. gzis gaumjobeseba miznad isaxavs haeris dabinZurebis, moZraobiT gamowveuli diskomfortis, sacobebis da aseve sagzao SemTxvevebis raodenobis Semcirebas. proeqtis ganxorcieleba gaaumjobesebs xelmisawvdomobas, kavSirebs da vaWrobas samxreT kavkasiasa da saqarTveloSi.

Tbilisi-rusTavis gzis monakveTis modernizacia mTavrobis mier prioritetad gamocxadda im mizniT, rom moxdes am arsebuli 17.1 km 2 zoliani gzis gaumjobeseba saerTaSoriso standartis kategoria 1 gzis donemde 4-6 sagzao zoliT da 100-120 km/sT saproeqto siCqariT.

saproeqto konsultantis mier momzadebuli Tbilisi-rusTavis gzis monakveTis modernizaciis detaluri proeqtis Tanaxmad, proeqti sam monakveTad iyofa:

* pirveli monakveTi: Tbilisi-foniWala, sigrZe 4.0 km;
* meore monakveTi: foniWala, sigrZe 6.8 km;
* mesame monakveTi: foniWala -rusTavi, sigrZe 6.6 km.

SUTIP 2 –is tranSis Tbilisi-wiTeli xidis (azerbaijanis sazRvari) gzis Tbilisi-rusTavis monakveTis modernizaciis proeqti moicavs samSeneblo samuSaoebs I da III monakveTebisaTvis.

**monakveTi 1: Tbilisi – foniWala** proeqtiT trasa 4.0km sigrZis monakveTs moicavs. Tbilisi-foniWalas saproeqto monakveTi mTlianad TbilisSi mdebareobs, igi viwro gzas gaivlis Savnabadasa da mdinare mtkvars Soris. proeqti iTvaliswinebs gzis arsebuli monakveTis mdernizebas Tbilissa (gulias quCis moedani) da foniWalas dasaxlebas (qvemo foniWala) Soris. arsebuli 2- zoliani gza gardaiqmneba 6-zolianad, sadac TiToeuli zolis sigane 3.50 m iqneba. centraluri barieri 6m siganisaa. fexiT mosiaruleebisaTvis orive mxares moewyoba 2.5-3.0m siganis trotuarebi. gzis safari asfaltobetonisaa. axali sagzao infrastruqtura moicavs erT xids satransporto kvanZze da kidev or xids mSrali xevebis Tavze, romelic mimdebare ferdobebidan eSveba arsebul gzaze da erT satransporto kvanZs.

**monakveTi 3**: **foniWala** **– rusTavi** proeqtiT trasa 6.7km sigrZis monakveTs moicavs. es monakveTi mTlianad mdebareobs gardabanis raionSi, saproeqto gzis trasa umetesad emTxveva Tbilisi-wiTeli xidis arsebul gzas. teqnikuri davalebis Tanaxmad, horizontaluri da vertikaluri mrudebis radiusebi, grZivi da ganivi qanobebi da viraJebi Seesabameba avtomagistralis parametrebs. saproeqto gzis RerZi gadis arsebuli gzis marjvena gverdulze. gaTvaliswinebulia gzis am monakveTis modernizacia foniWalas dasaxlebasa da rusTavs Soris. arsebuli 2- zoliani gza gardaiqmneba 4-zolianad, sadac TiToeuli zolis sigane 3.75 m iqneba. centraluri barieri 6m siganisaa da am monakveTze fexiT mosiaruleebisaTvis ar moewyoba trotuarebi. gzis safari betonisaa. proeqti moiTxovs gzis paralelurad arsebuli arxis amovsebas da axali arxis mowyobas mis siaxloveSi. axali sagzao infrastruqtura moicavs erT xids axali saproeqto arxis Tavze, or xids satransporto kvanZze da sam satransporto kvanZs.

## samSeneblo saqmianobebi proeqtis ganxorcielebis ganmavlobaSi

proeqtze Catarda tenderi, magram mSenebeli kontraqtori jer ar aris SerCeuli.

**b. garemosdacviTi marTvis jgufi**

mgf-Si arsebuli garemos dacvis analizisa da gansaxlebis ganyoflebas xelmZRvanelobs b-ni aleqsandre dumbaZe, xolo q-ni nino pataraSvili, b-

ni daviT bainduraSvili, b-ni nikoloz soselia da q-ni ekaterine mumlaZe arian garemosa da gansaxlebis specialistebi. zugdidi-jvari-mestia-lasdilis saavtomobilo gzis SUTIP, tranSi 1 mSenebloba-reabilitaciis farglebSi garemosdacviTi marTvis gegmebis ganxorcielebis zedamxedvelobaze pasuxismgebeli piri mgf-is mxridan iyo b-ni nikoloz soselia - garemos dacvis analizisa da gansaxlebis sammarTvelos specialisti.

proeqtis ganxorcielebis procesSi mgf-is garemos dacvis specialisti CarTuli unda iyos garemosdacviTi RonisZiebebis gegmaSi aRniSnuli garemosdacviTi Semamsubuqebeli RonisZiebebis ganxorcielebis monitoringSi. garemos monitoring unda ganxorcieldes garemosdacviTi RonisZiebebis gegmaSi miTiTebuli gegmebisa da ganrigis da mgf-is menejmentis mier damtkicebuli monitoringis ganxorcielebisTvis dadgenili ganrigis Sesabamisad.

20.01.2012 mgf-is mier kontraqtis #SUTIP/C/QCBS-3 farglebSi daqiravebuli iqna sazedamxedvelo kompania – erToblivi sawarmo DOHWA Engineering Co. LTD (korea), Sps “transproeqti” (saqarTvelo) da “Roads Rehabilitation and Modernization Supervision Direction” (saqarTvelo). kontraqtis Tanaxmad, kompania aseve pasuxismgebeli iyo proeqtis proeqtirebaze, Sesyidvebze, samSeneblo samuSaoebis marTvasa da zedamxedvelobaze. samSeneblo samuSaoebis marTva da zedamxedveloba asve moicavs garemosdacviT zedamxedvelobas. kompania aseve pasuxismgebeli unda iyos garemosdacviT standartebTan Sesatyvisobaze proeqtis ganxorcielebis ganmavlobaSi.

**g. proeqtis organizacia**

proeqtze Catarda tenderi da amJamad mimdinareobs mSenebeli kontraqtoris SerCevis procedura.

**II. garemosdacviTi monitoringi**

proeqtis ganxorcielebis periodSi mgf-is TanamSromlebma saproeqto teritoriaze unda ganaxorcielon perioduli vizitebi. monitoringi gulisxmobs periodul vizitebs obieqtze gafrTxilebis gareSe, raTa Seamowmos iq arsebuli situacia, is Tu rogor axorcielebs mSenebeli kontraqtori garemosdacviTi RonisZiebebis gegmas konkretul obieqtze da Tu rogor SeTanxmebulad muSaoben mSenebeli kontraqtori da sazedamxedvelo kompania socialuri da garemoze zemoqmedebis Tavidan asacileblad, garemosdacviTi RonisZiebebis gegmaSi miTiTebuli Semamsubuqebeli zomebis ganxorcielebis meSveobiT.

sazedamxedvelo kompania pasuxismgebeli unda iyos samSeneblo samuSaoebis yoveldRiur monitoringze da mgf-sadmi angariSgebaze proeqtis ganxorcielebis periodis ganmavlobaSi. zedamxedveloba moicavs samSeneblo saqmianobis garemosdacviT monitorings.

**III. garemosdacviTi menejmenti**

1. **obieqtis daTvaliereba**

samSeneblo samuSaoebis mimdinareobisas obieqtze vizitebi unda ganxorcieldes periodulad, mSenebeli kontraqtoris SerCevisa da misi obietqze mobilizaciis Semdeg.

1. **angariSgeba**

samSeneblo samuSaoebis dawyebamde, mSenebel kontraqtors evaleba garemosdacviTi RonisZiebebis gegmis momzadeba konkretuli obieqtisaTvis, romelic unda momzaddes mimdinare proeqtisaTvis SemuSavebuli IEE-Si Semavali garemosdacviTi RonisZiebebis gegmis Sesabamisad. kontraqtorma unda warmoadginos yovelkvireuli/yovelTviuri angariSebi, romelic Seexeba garemosdacviTi RonisZiebebis gegmis ganxorcielebas proeqtis msvlelobaSi.

mSeneblobis zedamxedvelobis procesSi konsultantma kontraqtorma momsaxurebis dawyebidan ori Tvis ganmavlobaSi unda warmoadginos sawyisi angariSi, romelSic mocemuli iqneba sakonsultacio momsaxurebis parametrebi, rac moicavs ZiriTadi samSeneblo samuSaoebis kontraqts, samuSaoebis programas, konsultantis obieqtis organizebis grafiks, saStato ganrigs, da momsaxurebis ganaxlebul meTodologias, raSic Seva saganmanaTleblo programebi da garemosdacviTi da socialuri monitoringis gegma. am angariSSi miTiTebuli iqneba Tu rogor apirebs konsultanti proeqtis ganxorcielebas. angariSSi aseve Seva teqnikuri davalebis im punqtebis statusi, romelic ukve mimdinareobda momsaxurebis dawyebisas (gansaxleba, garemosdacviTi saorinetacio kriteriumebi da a.S.) samuSaoebis mimarTulebiT dReisaTvis miRweul progresTan erTad da damowmebuli gadaxdebis grafiki, amgvaris arsebobis SemTxvevaSi.

sawyisi angariSis Semdgom, konsultanti warmoadgens yovelTviur Sualedur angariSebs saangariSgebo Tvis Semdgomi yoveli Tvis 15 ricxvisaTvis, romelSic asaxuli iqneba samuSaoebis mimdinareoba saangariSgebo Tvis ganmavlobaSi – am angariSebis ganmartebiTi baraTi Sedgeba: (i) erT-or gverdiani monaxazi mTliani proeqtis mdgomareobasTan dakavSirebiT da aseve (ii) erTgverdiani angariSis kontraqtis statusis Sesaxeb aziis ganviTarebis bankis dafinansebul gzis monakveTebTan dakavSirebiT. am angariSebSi unda Sediodes garemosdacviTi monitoringis angariSebi, raTa naxevarwlian periodebSi ganxorcieldes garemosdacviTi RonisZiebebis gegmis progresis monitoringi da aseve kontraqtiT moTxovnili sxvadasxva saxis informacia.

mgf amzadebs da agb-s warudgens naxevarwlian garemosdacviTi monitoringis angariSebs.

**g. Semasworebeli samoqmedo gegmebi**

proeqtze Catarda tenderi da amJamad mimdinareobs mSenebeli kontraqtoris SerCevis procedura. radganac samSeneblo samuSaoebi jer ar aris dawyebuli, ar Seiqmna Semasworebeli samoqmedo gegmis SemuSavebis saWiroeba.

1. **konsultaciebi da saCivrebi**

adgilobriv TemebTan Catarda konsultaciebi, ganxiluli iqna IEE/EIA angariSebi, romelic momzadda Tbilisi-wiTeli xidis (azerbaijanis sazRvari) gzis Tbilisi-rusTavis monakveTis modernizaciis proeqtis I da III monakveTebisaTvis.

saangariSgebo periodSi **a**rdafiqsirebula saCivrebi.

**IV. danarTi**

**garemosdacviTi marTvis gegma**

**samSeneblo faza**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| dasaxeleba | obieqtebi | rekomendebuli RonisZiebebi | vada | ganxorcieleba/  Sesabamisoba | SeniSvnebi |
| bunebrivi landSaftis ganadgureba (reliefi, niadagis fena, da veluri buneba) gzatkecilze mdebare gasxvisebis zolze  samuSaoebi: teritoriis dasufTaveba, nayofieri fenis mocileba da eqskavacaia  bunebrivi landSaftis ganadgureba (reliefi, niadagis fena, da veluri buneba) misasvlel gzebze karierebSi, nagavsayrelebze, samSeneblo banakebSi da aRWurvilobisTvis gankuTvnil teritoriaze. | mTeli gza unda gafarTovdes  banakis teritoria  karierebi  (mag: mtkvris Wala)  nagavsayrelebi, samSeneblo banakebi da aRWurvilobisTvis gankuTvnili teritoria | teritoriis dasufTavebis dawyebamde winaswar Catardeba kvleva faunis dazianebis Tavidan asacileblad (xelfrTianTa sabinadro adgilebis, sabudarebis Semowmeba gasxvisebis zolze)  WebSi da tranSeebSi joxebis moTavseba ZuZumwovrebis gadasarCenad  nayofieri niadagis fenis dasawyobebis qvemoT aRwerili, saTanado gamocdilebis gamoyeneba da dasawyobebuli niadagis gamoyeneba aRdgenisa da gamwvanebisTvis  wiTeli nusxis xis saxeobebis sakompensacio dargva unda ganxorcieldes Semdegi TanafardobiT 1:10; danarCeni xeebis dargva unda ganxorcieldes minimum 1:1  maCveneblis gaTvaliswinebiT  winaswar Catardeba kvleva faunisa da floris dazianebis Tavidan asacileblad  floris iSviaT an dacul saxeobebze gardauvali zemoqmedebis SemTxvevaSi, daigegmeba da ganxocieldeba gadargvis programa  WebSi da tranSeebSi moTavsdeba joxebi patara ZuZumwovrebis gadasarCenad  qvemoT aRwerili nayofieri niadagis fenis dasawyobebis saTanado gamocdilebis gamoyeneba da dasawyobebuli niadagis gamoyeneba aRdgenisa da gamwvanebisTvis  SemuSavdeba da ganxorcieldeba gamwvanebis gegma | teritoriis dasufTavebis dawyebamde  eqskavaciis periodi  teritoriis dasufTavebidan aRdgenamde  mSeneblobis dawyebamde dargvis gegmis momzadeba  ganxorcieldes dasrulebamde  farTis dasufTavebis dawyebamde  E  eqskavaciis periodi  teritoriis dasufTavebidan aRdgenamde  samSeneblo samuSaoebis dasrulebis Semdeg |  | damakamyofilebeli |
| damakamyofilebeli |

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| sagzo samuSaoebis Sedegad (gzis axali Wrilebi da yrilebi) gamowveuli erozia da bunebrivi drenaJis droebiTi sedimentacia.  Ria an daxuruli drenaJebidan miwis vakisis qveS koncentrirebuli nakadis gadinebiT gamowveuli niadagis erozia  samSeneblo obieqtebze da gzis Wrilebze, yrilebze da nagavsayrelebze eroziiT dazianebuli naleqis momatebuli nakadi  niadagis nayofieri fenis dakargva arasaTando dasawyobebisa da mopyrobis Sedegad  gasxvisebis zolze, xidebsa da aRWurvilobisTvis gankuTvnil teritoriaze mSeneblobisa da samSeneblo manqana-danadgraebis eqsploataciis Sedegad niadagisa da zedapiruli wylis dabinZureba navTobiT, sapoxi masalebiT, sawvaviTa da saRebaviT.  obieqtze mSeneblobis dros gamoyenebuli masalebi potenciurad dabinZurebis wyaroa. sawvavis, sapoxi masalebis qimiuri nivTierebebisa da saxifaTo masalebTan arasaTanado dasawyobeba da mopyroba da maTi gaJonvis potenciuri SesaZloa gaxdes garemoze zemoqmedebis mizezi an daazianos mSeneblobaze momuSave muSebis janmrTeloba. | mTeli trasis gaswvriv  md.mtkvarTan axlos mdebare monakveTebi  mTeli trasa: gzis monakveTebi  niadagi-mTeli trasa  mdinare-mtkvari  km 0-1 | **Semarbilebeli RonisZiebebis**  detaluri proeqtis Sesabamisad ganxorcieldeba permanentuli da droebiTi anti-eroziuli RonisZiebebi (droebiTi drenaJi, geo-teqstili, berma, a.S.)  sedimentaciis zemoqmedebis Sesarbileblad ganxorcieldeba qvemoT CamoTvlili RonisZiebebi:   * mSral periodebSi niadagis gadatanis SezRudva. * yvelaze mgrZnobiare niadagis zedapiris dacva mulCiT. * sadrenaJe arxebis CaliT an naWris zRudeebiT dacva. * sedimentaciisTvis saWiro auzebis mowyoba   gardauvali eroziis Sesarbileblad ganxorcieldeba Semdegi RonisZiebebi:  -Camdinare wylebisTvis saTanado zomis arxebis mowyoba  - kaskadis efeqtis Tavidan acilebis mizniT  sadrenaJe wertilebis daproeqteba  -jvaredini sadrenaJe konstruqciebis uzrunvelyofa  Camdinare wylebis mimRebi zedapirebis (qvisa da betonisgan) mowyoba  **strategia**: prevencia droebiTi anti-eroziuli zomebis gamoyenebis saSualebiT – droebiTi drenaJi, naleqis droebiTi keptaJebi, a.S.   * mgrZnobiare zedapirebis dacva qsoviliT; * Semakavebeli auzis mowyoba naleqis nakadis Sesamcireblad sanam wyali SeuerTdeba mdinaris nakads   kontraqtorma unda:   * niadagis nayofieri fenis mocileba 15sm-is siRrmeze da yrilebad moTavseba. maTi simaRle ar unda aRematebodes 2m, daqaneba 1:2 * gaifantos nayofieri fena ise, rom SenarCundes niadagis fizikur-qimiuri moqmedeba. nayofieri fenis gamoyeneba moxdeba dasargavad gaTvaliswinebuli teritoriis gaswvriv. * nayofieri fenis yrilebze ganxorcieldeba monitoringi da nebismieri xelsiSemSleli faqtoris identificireba. gamosasworebeli qmedebebi moicavs: * anaerobul pirobebs- saventilacio xvrelebis gakeTeba yrilebis saSualebiT; * erozia-droebiTi damcavi Slamis zRudis ageba   kontraqtorma unda  -moamzados sakontrolo RonisZiebebi da gadaagzavnos dasamtkiceblad.  -saTanadod moamzados mSeneblobaze dakavebuli TanamSrolebi sawvavTan mopyrobasSI.  daasawyobos saxifaTo masalebi spec.adgilebze dabeWdili plastikuri fenis Tavze minimum 100mm distanciaze wyalsatevebidan. ar unda daasawyobos saxifaTo narCenebi akrZalul teritoriaze, rogoricaa   * md.mtkvris an sxva wyalsatevis napirebTan 100m manZilze   -nebismieri sacxovrebeli, kulturuli an arqeologiuri obieqtis teritoriaze, 500m manZilze  -samuSao obieqtebze sawvaviT Sevsebisas unda gamoiyenon Semwovi sagebi da/ an Cala gaJonvis SemTxvevis minimumamde dayvanis mizniT, romelic ganTavsdeba sawvaviT Sevsebid dawyebamde saTanado adgilas. gruntisa da zedapiruli wylebis dabinZurebis riski Semcirdeba an gamoiricxeba dabinZurebuli miwis nawilis dauyovnebliv moSorebis SemTxvevaSi. dabinZurebuli grunti da Semwovebi saTandod moSorebuli da dasawyobebuli iqneba rogorc saxifaTo narCenebi. mniSvnelovani gaJonvis SemTxvevaSi uflebamosili da pasuxismgebeli piri informirebuli iqneba momxdaris Sesaxeb, samuSaoebi Sewydeba dabinZurebis riskis gamoricxvamde. sawvaviT Sevseba yovelTvis ganxorcieldeba saTanado danadgarebiT da saTanado gamocdilebis mqone da gawafuli operatorebis mier. | samSeneblo periodi  samSeneblo periodi  samSeneblo periodi:daswyisi-nayofieri fenis mocileba-dasasruli-aRdgena |  | damakmayofilebeli  damakmayofilebeli  damakmayofilebeli |

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| samSeneblo narCenis warmoqmna gasxvisebis zolis gayolebaze:  -morCenili niadagi da qvebi, dangreuli konstruqciebi, SesafuTi masalebi da a.S.)  -betonisa da metalis konstruqciebi  samSeneblo obieqtze transportisa da danadgarebis eqspluataciisSedegad gamoyofili gamonabolqvi, romelic iwvevs haeris dabinZurebas  samSeneblo obieqtebze, masalebis sawyobebsa da misasvlel gzebze warmoqmnili mtveri  mtveri aris usiamovo faqtori, romelic muSebisa da adgilobriv mosaxleobis janmrTelobaze axdens zemoqmedebas;  mSeneblobis periodSi transportis eqspluataciiT gamowveuli dabinZureba dasxlebul teritoriebze, romelsac kveTs gzatkecili, gansakuTrebiT centraluri nawilebi da mWidrod dasaxlebuli sasoflo raionebi. adgilobrivi xmauri.  infrastruqtura. ZiriTadi infrastruqturuli elementebi, romlebic SesaZloa moxvdes zemoqmedebis qveS:   1. eleqtrogadamcemi xazebi 2. gazis ZiriTAdi magistrali da adgilobrivi milsadenebi 3. optikur-boWkovani kabeli   droebiTi guburebis (tborebi) warmoqmna, sadac koRoebi gamravldebian. guburebis warmoqmna karierebSi, da a.S. rac xelsayrelia koRoebisa gamravlebisa da sxva daavadebebis gasavrceleblad  mSeneblobis procesSi transportis eqsploataciis Sedegad gamowveuli janmrTelobisTvis saxifaTo xmauri, gamonabolqvi da mtveri.  arqeologiur obieqtebsa da naSTebze zemoqmedeba | samSeneblo obieqtebi  mTeli trasa  mTeli trasa  mTeli trasa  mTeli trasa  dasaxlebebis axlos  mTeli trasa | | | | iaRlujis municipalitetebTan narCenebis marTvasTan dakavSirebiT SeTanxmeba da amoRebuli gruntis nagavsayrelze transportireba (morCenili niadagi da qva-RorRi) da misi gamoyeneba nagavsayrelis gadasafarad.  SemoTavazebuli RonisZiebis zogadi monaxazi:  Sefaseba da saWiroebis SemTxvevaSi amoRebuli gruntisa da qva-RorRis gatanis gegmis SemuSaveba.  amoRebuli gruntisa  da morCenili qva-RorRis gamoyeneba sanapiro zolisa da kaSxlis asaSeneblad da qvayriliT mopirkeTeba  adgilobriv municipalitetebTan SeTanxmebul adgilebze narCenebis ganTavseba.  adgilobrivi TemebisTvis nebarTvis gacema morCenili qva-RorRis gamosayeneblad.    municipalitetTan SeTanxmebiT nebisimieri sxva masalis transportireba uaxloes nagavsayrelebze. mTavari mizania Rirebuli landSaftis an niadagis da sxva ekologiurad mgrZnobiare adgilebis dazianebis Tavidan acileba.  mongreuli metalis konstruqciebis gatana jarTis saxiT  saxifaTo da ara-saxifaTo narCenebis marTvaSi CarTuli personali gaivlis specialur treinings:  -narCenebis marTva  narCenebis damuSaveba; da  -narCenebis dasawyobeba.  nebismier samSeneblo obieqtze ikrZaleba narCenebis dawva jirkebis an waqceuli xeebis totebisa da buCqebis gamoklebiT, romelTa dawvac umjobesia parazitebis gavrcelebis Tavidan acilebis mizniT.    mSeneblobaze eqspluatirebuli nebismieri transportis gamonabolqvis done unda Seesabamebodes saqarTveloSi dadgenil standartebs.  -nebismieri betonis qarxana dasaxlebuli teritoriidan moSorebiT unda iyos ganTavsebuli.  - daculi unda iyos Zravis movla-patronobis ganrigisa da SekeTebis standartebi.  -yvela transportisa da danadgaris teqnikuri momsaxureba ise unda ganxorcieldes, maTma gamobolqvma ar Seuqmnas diskomforti muSebs an adgilobrivebs.  ganxorcieldeba dizelis Zravebis regularuli movla-patronoba gamonabolqvis minimumade Semcirebis mizniT, magaliTad sawvavis inJeqtorebis gawmenda. yoveldRiuri teq.momsaxureba unda Seesabamebodes maRal standartebs transportis usafrTxoebisa da gamonabolqvis minimumade Sesamcireblad.  -trasnportis sawvaviT Sevseba unda ganxorcieldes sawvavis, tumboebisa da daxuruli avzebis gamoyenebiT (sawvavis Sesanaxad ar iqneba gamoyenebuli Ria konteinerebi) aqroladi organuli nivTierebebis gamofrqvevebis Tavidan asacileblad.  -betonis qarxnebisa da moZravi eqsploataciiT gamowveuli mtvris donis Sesamcireblad yvel saxis zomis miReba- wyliT danamva da Semakavabeli RonisZiebebi.  -mSral pirobebSi masalisa da qviSisa da yrilebis gadamzidi transportis gadaxurva brezentiT. samSeneblo obieqti da adgilobrivi gzebis saTanadod danamva.  -muSebis uzrunvelyofa damcavi aRWurvilobiT mag: karierebze, qvis samtexloebze.  - saWiroebis SemTxvevaSi gansazRvruli marSrutebis gamoyeneba da siCqaris SezRudva moZraobis gegmis gaTvaliswinebiT  -samSeneblo masalebisa da sasawyobe yrilebis SefuTva.  danadgarebze damxSobis damontaJeba da gamoyeneba.  yoveldRiuri teq.momsaxureba unda Seesabamebodes maRal standartebs transportis usafrTxoebisa da gamonabolqvis minimumade Semcirebis mizniT. obieqtze eqspluatirebuli danadgarebi mudmivad unda iyos karg samuSao mdgomareobaSi xmauris Semcirebis mizniT.  dasaxlebis maxloblad aikrZalos Ramis samuSaoebi.  **infrastruqturis dacva.**  detaluri proeqtis farglebSi individualuri gadadgilebis/rekonstruqciis gegmisa da proeqtis ganxorcieleba infrastruqturis mflobelebTan SeTanxmebiT.  zemoqmedebis qveS moqceuli infrastruqturuli elementebis gadaadgileba  -sahaero eleqtrogadamcemi xazebis gadaadgileba samSeneblo obieqtze gasxvisebis zolis farglebSi  -gazis milsadenebis gadaadgileba  mSeneblobis dros mudmivi monitoringi. dazianebis SemTxvevaSi sruli aRdgena.  yvela guburis daSroba gazafxulis dadgomamde reliefisa da landSaftis aRdgena.  mtvris kontroli danamvis meTodiT. sul mcire 2 navigatoris gamoyeneba;  xmauris kontroli, danadgarebze damxSobis damontaJeba, dRis samuSaoebi;  ix. punqtebi 11-13  mudmivi monotoringi adgilis dasufTavebisa da seqskavacio samuSaoebis ganxorcielebisas.  samSeneblo samuSaoebis SeCereba da Sewyveta arqeologiuri aRmoCenebis SemTxvevaSi. saWiro arqeologiuri samuSaoebis dasruleba samSeneblo samuSaoebis ganaxlebamde. naSTebis konservacia. | | mobilizaciis etapi  samSeneblo periodi  samSeneblo periodi  mobilizaciis etapi da  samSeneblo periodi  samSeneblo periodi  samSeneblo periodi  mosamzadebeli samuSaoebi mSeneblobis dawyebamde  samSeneblo periodi  samSeneblo periodi  mSeneblobis dawyebamde;  samSeneblo periodi | | damakmayofilebeli  damakmayofilebeli  damakmayofilebeli    damakmayofilebeli  damakmayofilebeli  damakmayofilebeli  damakmayofilebeli  damakmayofilebeli | |
| miwis samuSaoebis dros biologiuri dabinZurebis gavrceleba parazitebis saSualebiT (mag.jilexi) | mTeli trasa | | | | mudmivi monotoringi adgilis dasufTavebisa da seqskavacio samuSaoebis ganxorcielebisas.  samSeneblo samuSaoebis SeCereba da Sewyveta mkvdari cxovelebis samarxebis aRmoCenis SemTxvevaSi. veterinariis departamentis adgilobrivi ganyofielbis informireba. dawyebamde veterinaruli dasufTaveba. | | samSeneblo periodi | damakmayofilebeli | | |
| saxifaTo sagzao  pirobebi, sadac mSenebloba kveTs arsebul gzebs. | | mTeli trasa | | | saTanado markerebisa da gzebze usafrTxoebis niSnebis uzrunvelyofanaTurebis CaTvliT. mZRolebis instruqtaJi | | samSeneblo periodi | damakmayofilebeli | | |
| saboloo aRdgena da grZelvadiani anti-eroziuli RonisZiebebi | | mTeli trasa | | yvela samuSao obieqti (garda gzebisa da damxmare owyobilobebisa) unda daubrundes sawyis mdgomareobas (reliefi, nayofieri fena, mcenareuli safari). jerjerobiT Zalian mcire teritoriis dasufTavebaa saWiro gzatkecilis modernizebisTvis. nayofieri fenis SenarCuneba sakmarisia bunebrivi mcenareuli safaris aRsadgenad. | |  | | damakmayofilebeli | |
| xeebis moWrisa da xeebis dargvis sakompensacio programa | mgrZnobiare zonebi | | xeebis dargvis sakompensacio programa SeTanxmebuli unda iyos garemos dacvis saminitrosTan da rusTavis municipalitetTan. specialuri SeTanxmebaa saWiro saqarTvelos marTlmadideblur eklesiasTan krwanisis parkis sazRvarze xeebis moWrasTan dakavSirebiT. Serbilebis programa moicavs parkSi xeebis gadargvasa da parkis ekologiuri mdgomareobis Semdgomi gaumjobesebasTan dakavSirebul RonisZiebebs. xis dargvis proporciebi: 1:10 wiTeli nusxis moWrili saxeobebisTvis da 1:2 (ara wiTeli) saxeobebisTvis  wiTeli nusxis saxeobebis garemodan amoRebisa da tyis fondidan miwis amoricxvis procedurebis dacva saWiroebis mixedviT | | | | SemuSavdes mSeneblobis dawyebamde | damakmayofielbeli | |

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| gadasazid transportTan dakavSirebuli avariis riskebi, ramac SeiZleba gamoiwvios toqsikuri masalebis gaJonva, asafeTqebeli nivTirebebis detonacia, dazianeba an sikvdili (ix. nawili “saxifaTo masalebis menejmenti’), dazianebebi da sikvdili (ix.nawili ’sazogadoebrivi jamrTeloba da usafrTxoeba’) | mTeli trasa | -proeqtis farglebSi gzebze markerebisa da usafrTxoebis nisnebis uzrunvelyofa, naTurebis CaTvliT. mZRolebis instruqtaJi.  -usafrTxoebis zomebisa da gauTvaliswinebeli SemTxvevebisTvis gegmis daproeqteba da ganxorcieleba ucabedi gaJonvebis Sedegad mosalodneli zianis Tavidan asacileblad.  -saxifaTo masalebis transportirebisTvis specialuri marSrutebis gansazRvra.  -mSeneblobaze eqspluatirebuli transportis regulireba moZraobisas dabrkolebis Tavidan asacileblad.  -ekologiurad mgrZnobiare da mWidrod dasaxlebul adgilebSi toqsikuri narCenebis transportirebis akrZalva |  |  |  |
| karierebi  karieris masalebis gamoyenebam gzis napirebisa da xidebis mSeneblobisTvis SesaZloa gamoiwvios miwis dakargva da gadagvareba.  karierebze ganxorcielebuli aqtiuri samuSaoebis Sedegad potenciuri zemoqmedeba ixtiofaunaze, gruntis wylebsa da landSaftze.  **betonis qarxnebi**  samSeneblo banaki, aRWurvilobisTvis gankuTvnili teritoria da satransporto parki  banakis mSeneblobasa da esqploataciasTan dakavSirebuli SesaZlo zemoqmedeba SeiZleba Semdegnairad ganisazRvros:  -banakis mSeneblobis procesSi mcenareuli safaris mocileba;  -nayofieri fenis savaraudo dazianeba  -sawvavis dasawyobebasTan da sawvavis CasxmasTan dakavSirebuli dabinZureba  -kanalizaciasTan dakavSirebuli dabinZureba  -narCenebTan dakavSirebuli dabinZureba | gansakuTrebiT mtkvris Wala  qarxnis teritoria  banakis teritoria | winaswari garemosdacviTi Sefasebis mixedviTsaproeqto gzis axlos mdebare, licenzirebuli karierebis gamoyeneba (ix. Tavi 2)  karieris masalebis mopoveba ganxorcieldeba arsebuli moqmedi obieqtebidan saTanado licenziebiTa da garemosdacviTi nebarTvebiT. licenziebis moqmedebis vadis kontroli. (licenziaSi mocemuli unda iyos kvlevis dasaSvebi zRvari da aRdgenasTan dakavSirebuli valdebulebebi.  axali karierebis gaxsnis saWiroebis SemxvevaSi, yvela saWiro licenzias gascems energetikisa da bunebrivi resursebis saministro.  nayofieri fenis konservaciisTvis miRebuli iqneba zomebi. teritoriis gamoyenebis Semdeg mdgomareoba unda aRdges licenzirebis pirobebis Sesabamisad.  transportis eqspluataciis kontroli karierebze.  wyalsatevebis gadakveTis Tavidan acileba. navTobis an sawvavis gaJonvis SemTxvevis gamoricxva. transportis mdgomareobis Semowmeba.  xelSekrulebis dadeba mxolod licenzirebul, yvela saWiro garemosdacviTi nebarTvis mqone momwodeblebTan.  im SemTxvevaSi Tu mSenebeli kontraqtori gadawyvitavs sakuTari qarxnis aSenebas da amoqmedebas, unda momzaddes specifiuri garemoze zemoqmedebis Sefaseba da aseve garemoze zemoqmedebis nebarTva.  - narCenebis saTanado marTva (ix.danarTi XX banakebisTvis gankuTvnili narCenebis marTvis RonisZiebebi)   * banakebTan dakavSirebuli regulaciebis gamoyeneba romelic mocemulia gv. 8.1.1.13   soflebSi personalis sacxovrebliT uzrunvelyofa.  im SemTxvevaSi, Tu aigeba didi banaki muSebis sacxovreblad, unda moewyos standartebis Sesabamisi kanalizacia.  -dabinZurebis Tavidan asacilebeli zomebi: sawvavis Casxmis saTanado organizeba, narCenebis marTva;  -nayofieri fenis saTanado dasawyobeba  nayofieri fenisa da mcenareuli safaris aRdgena. | samSeneblo periodi  samSeneblo periodi    samSeneblo periodi |  | damakmayofilebe  li  damakmayofilebe  li  damakmayofilebe  li |